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United States
Department of
Agriculture

Forest Service

Tongass
National
Forest

R10-MB-239f

August 1993



North Revilla Final Environmental Impact Statement

Ketchikan Pulp Company
Long-Term Timber Sale Contract

Volume IV: Appendix K, Pt. 2



Appendix K

Unit and Road Cards - Part 2

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8001</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>27</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>847</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 18 acres Medium 5 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 27 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

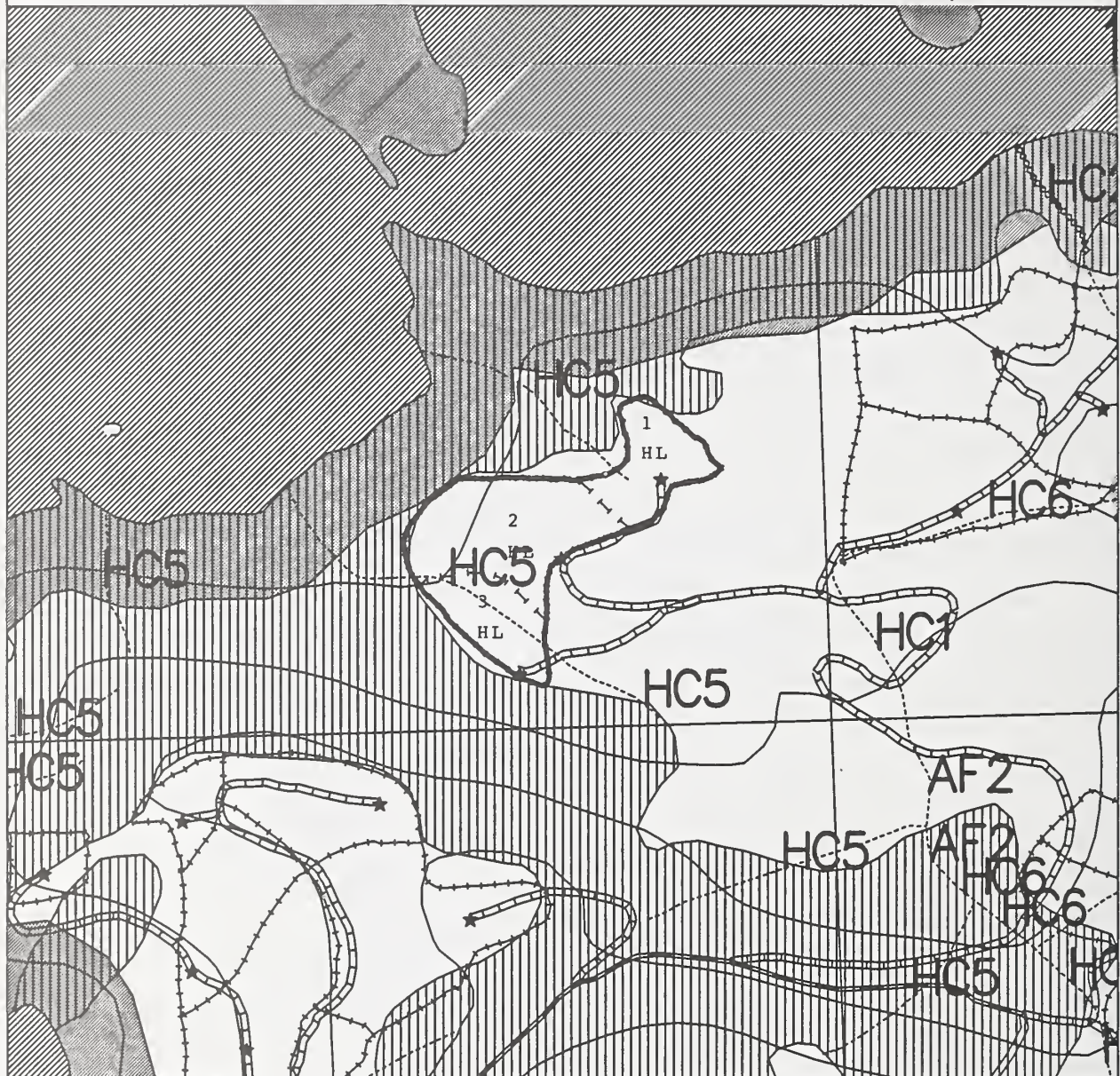
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8001

PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 847 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP _____ RANGE _____

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8002</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>M</u>
Planned acres <u>4</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>125</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 4 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 2 Mixed 2 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 4 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.14 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

This unit adjacent to other ownership. Boundary establishment required prior to layout.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

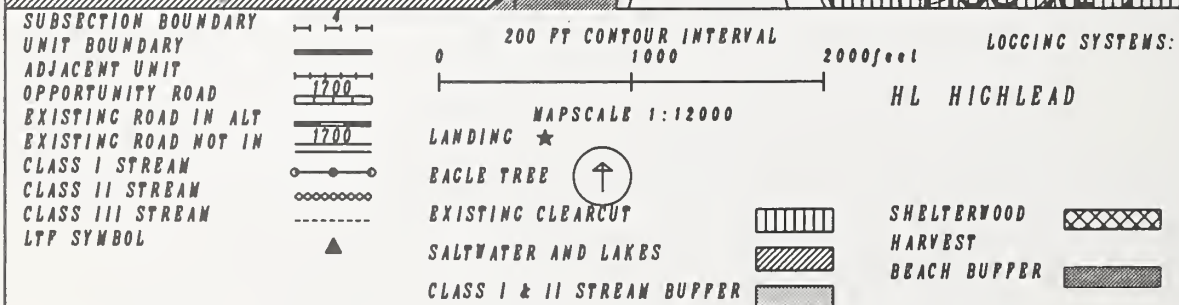
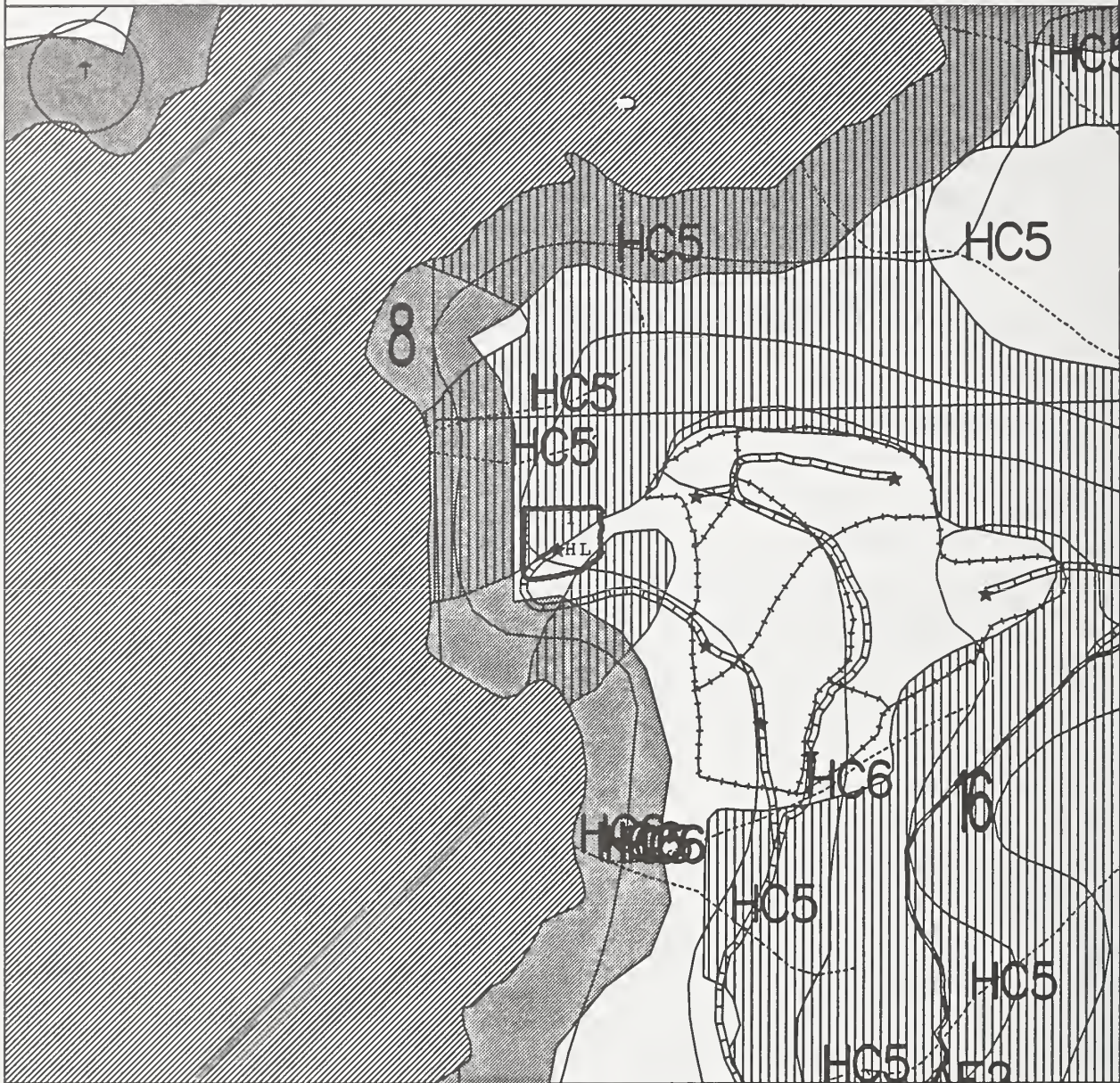
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8002

PLANNED HARVEST UNIT MAP

ACRES: 4 VOLUME: 125 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8003</u>	No. Settings <u>6</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>M</u>
Planned acres <u>68</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2132</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 68 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 63 acres 800-1200 ft. 5 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 68 acres Very High 0 acres
Cedar 0 Hemlock 68 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 68 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.14 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for
every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8004

PLANNED HARVEST UNIT MAP

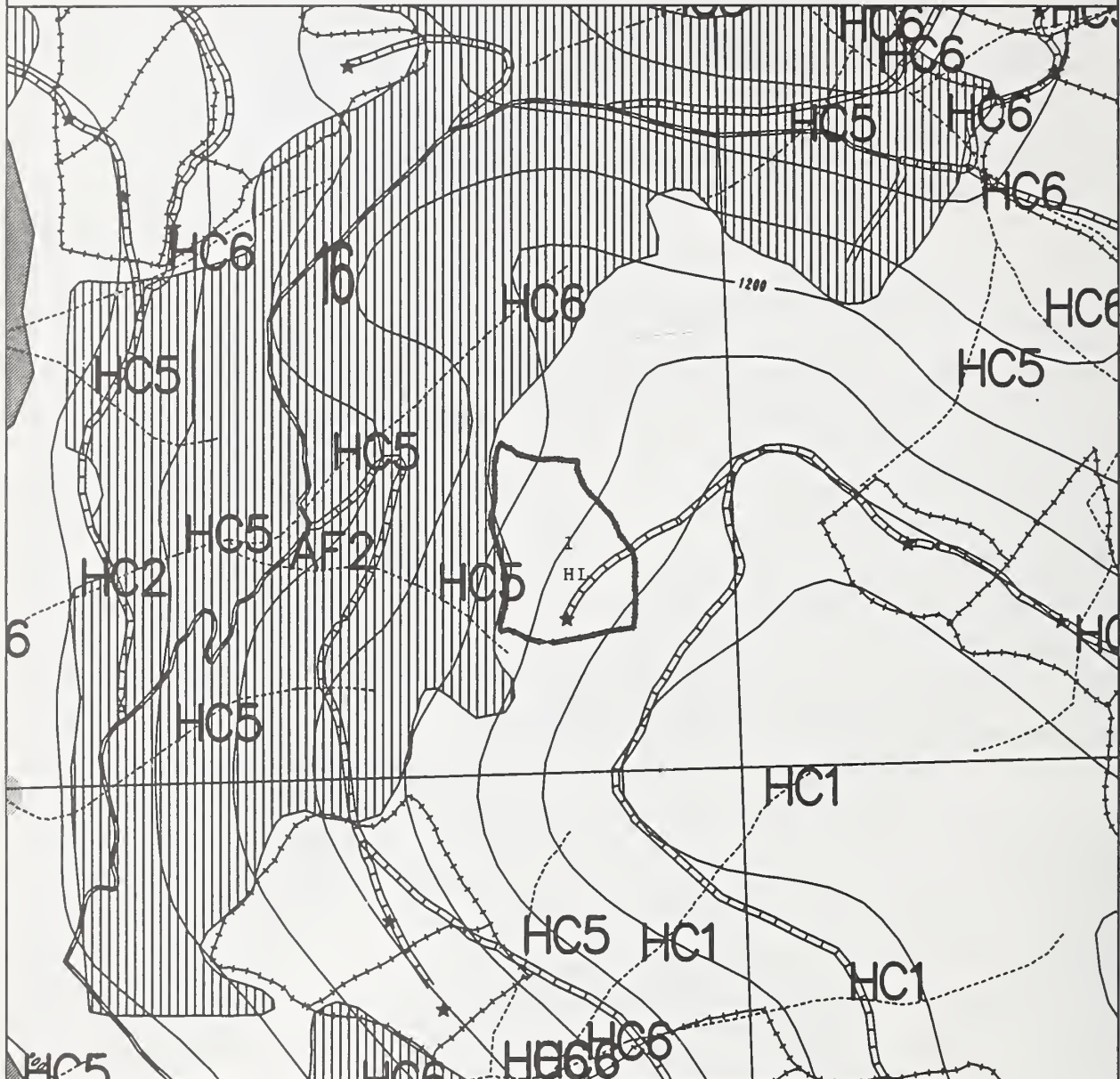
ACRES: 17VOLUME: 534 MBPQUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-11

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST

BEACH BUFFER

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8005</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>36</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1129</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 36 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 27 acres 1200-1500 ft. 3 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 34 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 36 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 34 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.42 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8005

PLANNED HARVEST UNIT MAP

ACRBS: 36

VOLUME: 1129

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.:

1179-11

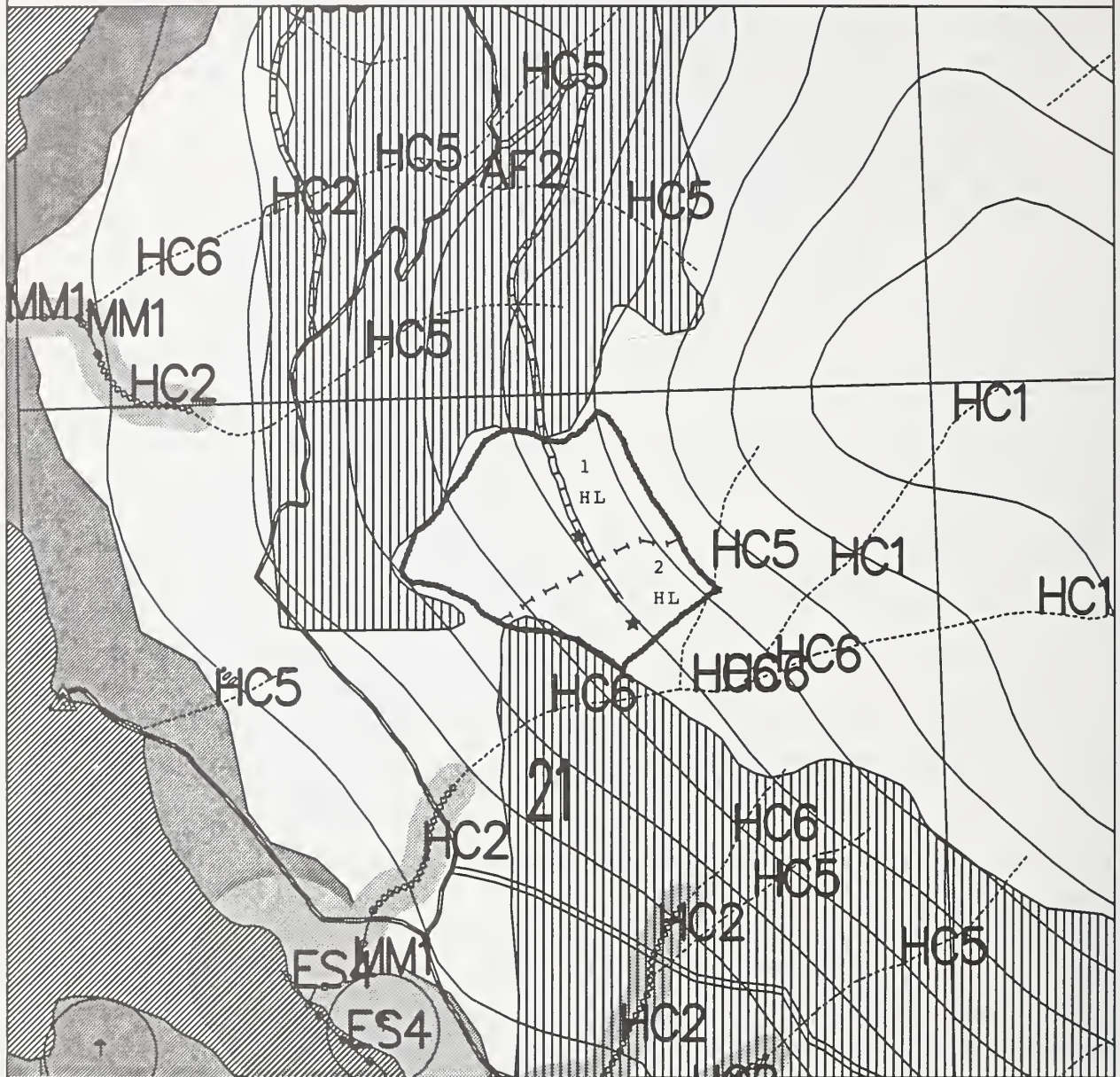
LANDNET INFO

TOWNSHIP

71S

RANCR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER

SHELTERWOOD

HARVEST

BEACH BUFFER

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8006</u>	No. Settings <u>6</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>86</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3288</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 20 acres VC6 63 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 11 acres 1200-1500 ft. 38 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 1 acres High 77 acres Very High 0 acres
Cedar 0 Hemlock 83 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 84 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 75 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.42 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8006

PLANNED HARVEST UNIT MAP

ACRES: 86VOLUME: 3288

MBP

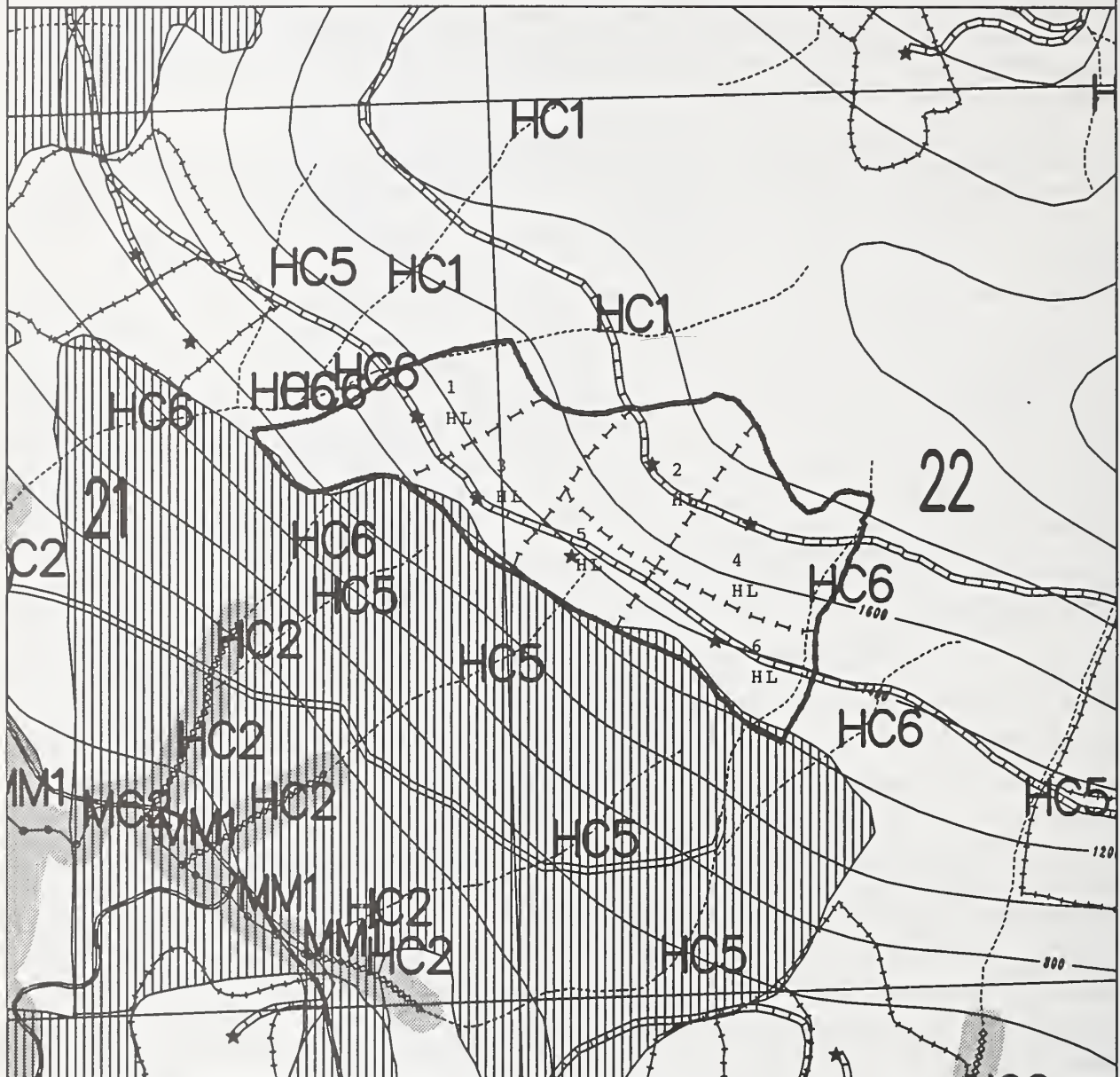
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-11

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 PT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



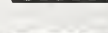
SHELTERWOOD



HARVEST



BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8007</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>54</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1974</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 25 acres VC6 29 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 14 acres 1200-1500 ft. 20 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 54 acres Very High 0 acres
Cedar 0 Hemlock 24 Mixed 29 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 53 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 53 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.23 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

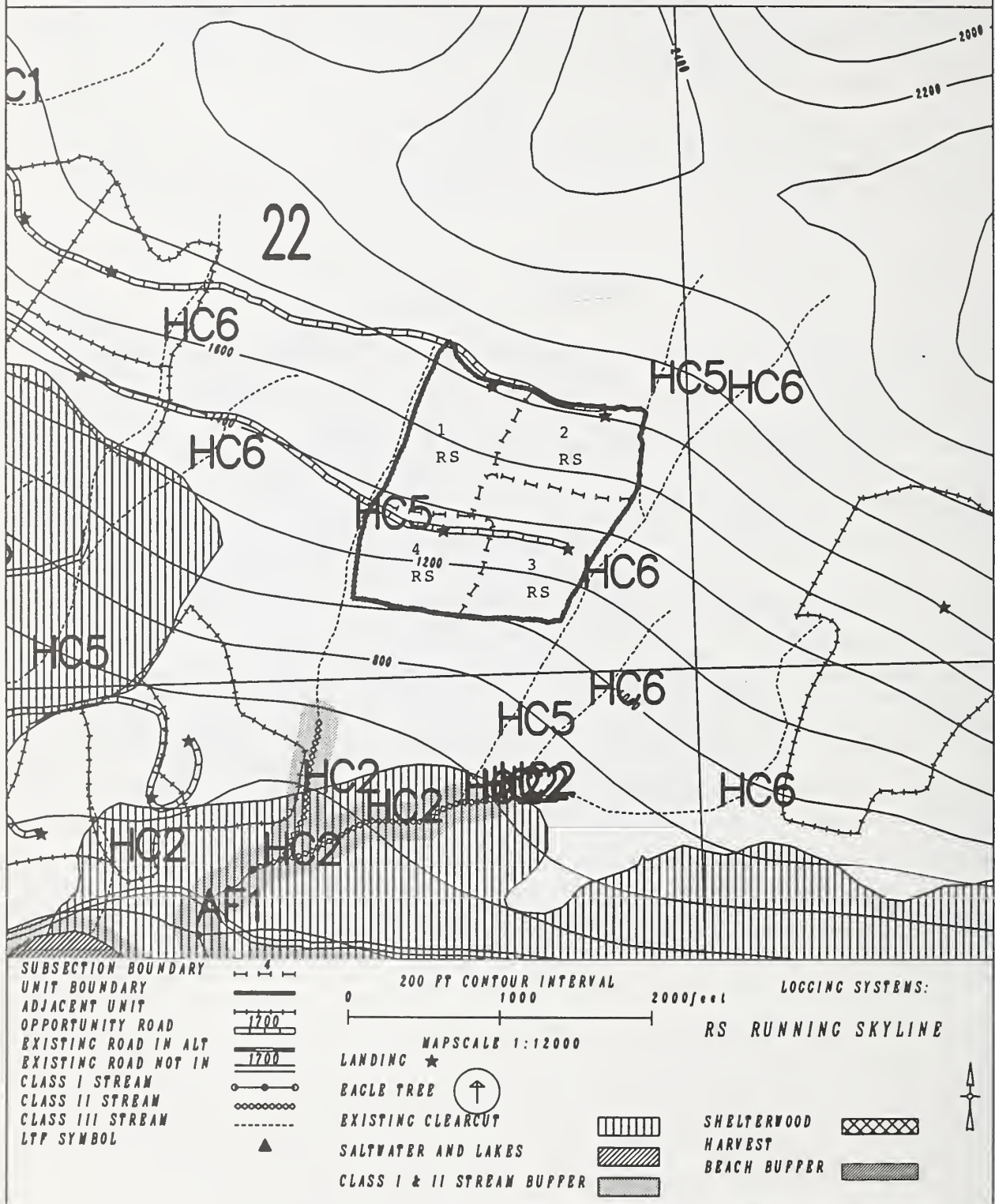
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8007

PLANNED HARVEST UNIT MAP

ACRES: 54 VOLUME: 1974 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8008</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 5</u>	VQO <u>M</u>
Planned acres <u>58</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1825</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 58 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 12 acres 1200-1500 ft. 14 acres over 1500 ft. 7 acres
Mass movement index: Low 0 acres Medium 0 acres High 58 acres Very High 0 acres
Cedar 0 Hemlock 37 Mixed 21 Percent Seen 34 Percent Unseen 66 Aspect South

SOILS

This unit has 58 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 58 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

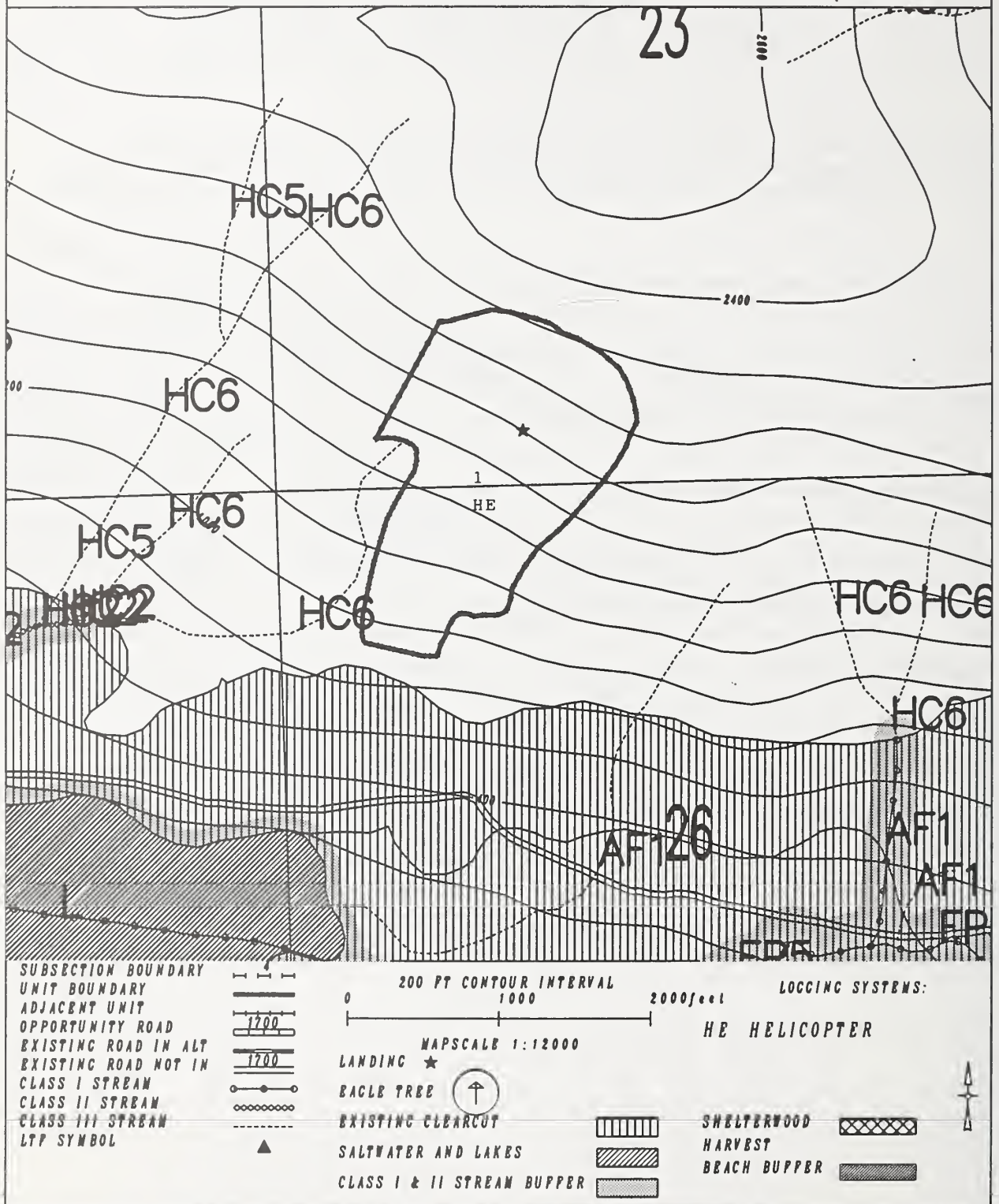
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8008

PLANNED HARVEST UNIT MAP

ACRES: 58 VOLUME: 1825 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8009</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 4 5</u>	VQO <u>MM</u>
Planned acres <u>46</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1207</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 40 acres VC5 4 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 46 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 46 acres Very High 0 acres
Cedar 0 Hemlock 36 Mixed 10 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 45 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

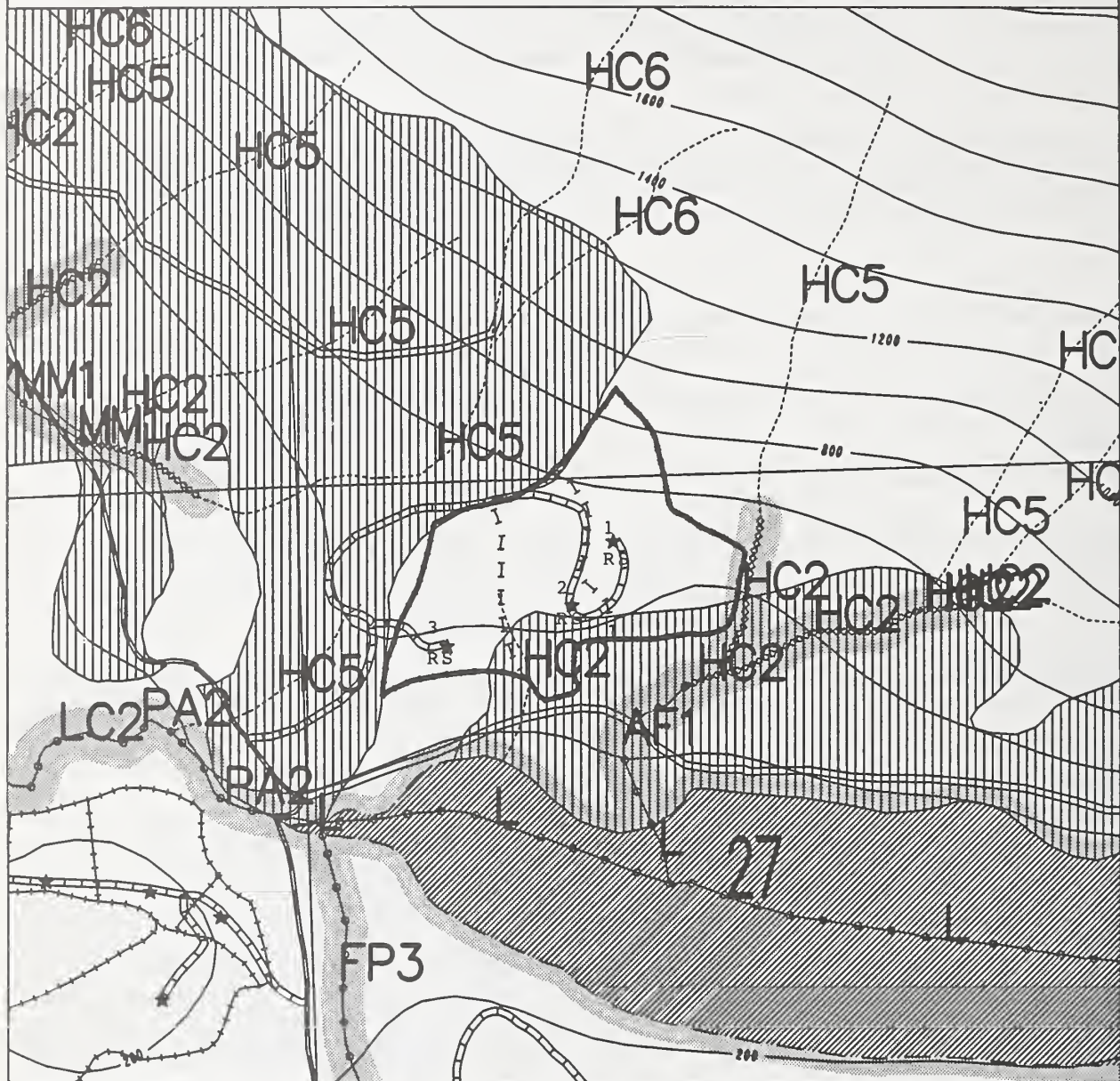
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8009

PLANNED HARVEST UNIT MAP

ACRES: 46 VOLUME: 1207 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8010</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>38</u>	Quad <u>KTNC5NWN</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1065</u>	Mgmt Area <u>K32</u> VCU <u>7380</u>		Plant Series <u>CMB</u>
Logging methods <u>HL</u>	WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-11</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 20 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 38 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 32 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 4 Percent Seen 8 Percent Unseen 92 Aspect West

SOILS

This unit has 37 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 34 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.68 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

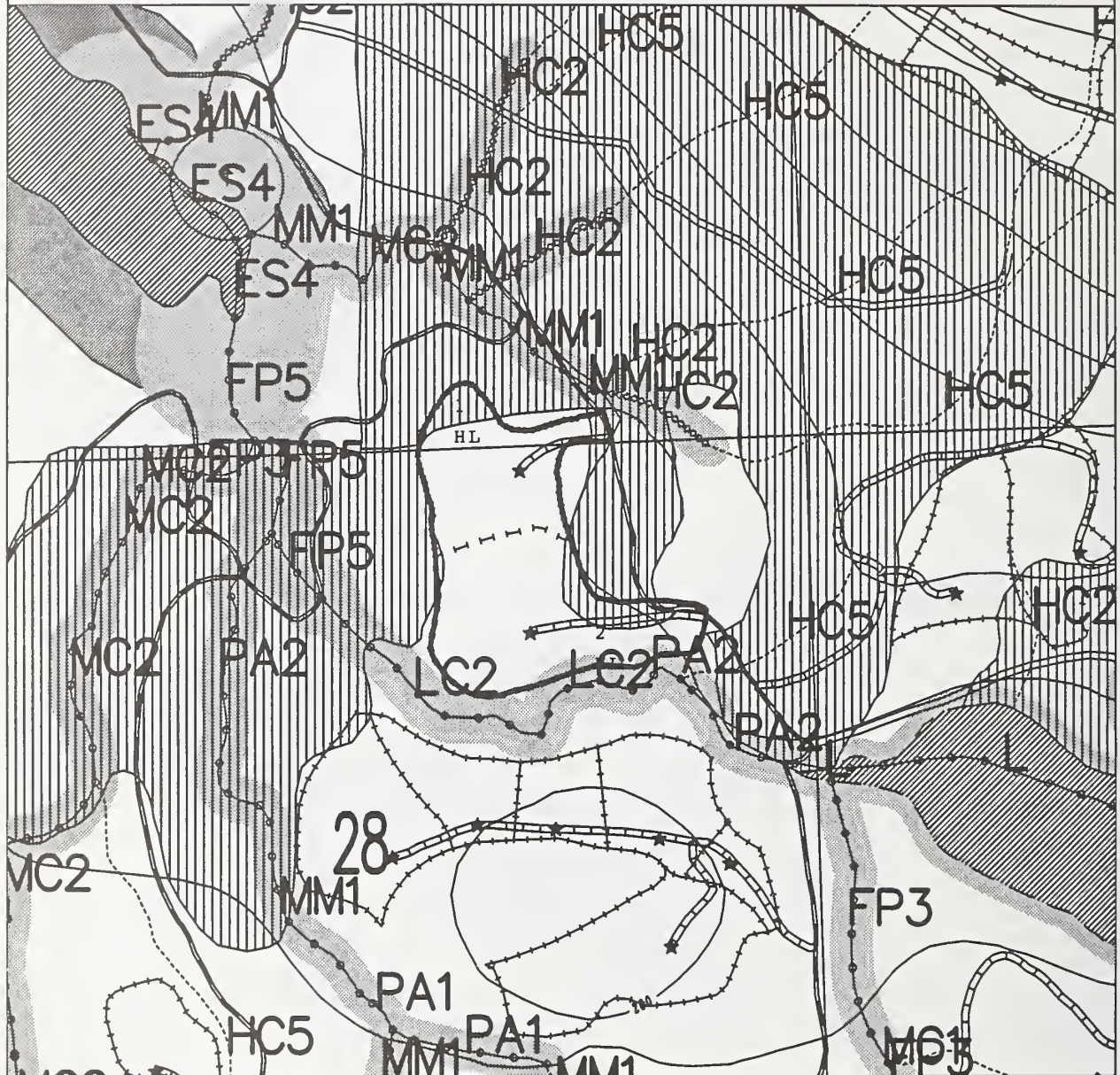
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8010

PLANNED HARVEST UNIT MAP

ACRES: 38 VOLUME: 1065 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

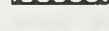
LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8011</u>	No. Settings <u>6</u>	Alternatives considered <u>2 3 4 5</u>	VQO <u>MM</u>
Planned acres <u>62</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1672</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 43 acres VC5 19 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 62 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 62 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 43 Mixed 14 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 51 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 44 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.85 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8011

PLANNED HARVEST UNIT MAP

ACRES: 62

VOLUME: 1672

MBP

QUAD(s): KTNCS

QUARTER QUAD(s): NWN/NWS

PHOTO NUM.: 1179-11

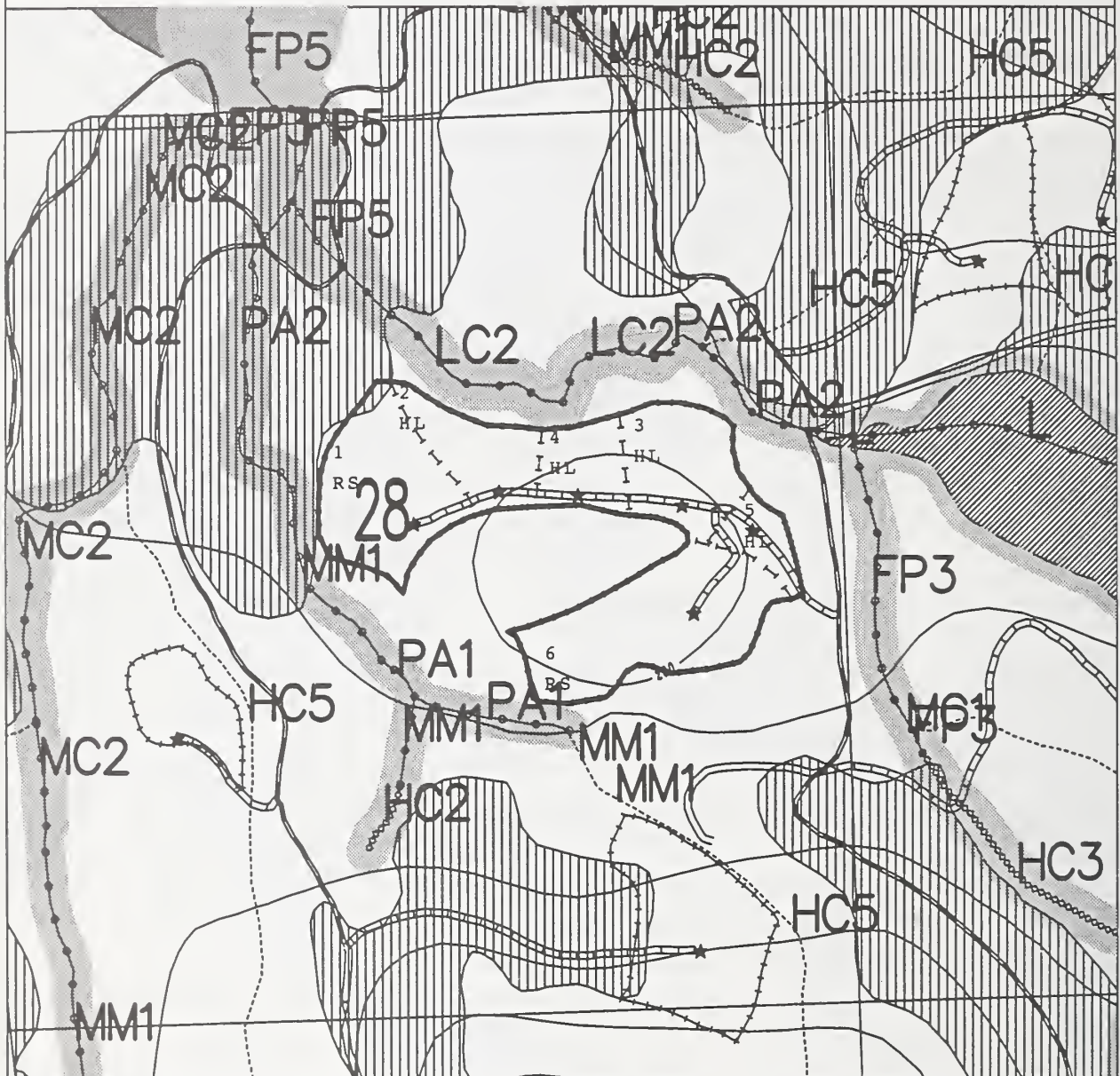
LANDNET INFO

TOWNSHIP

71S

RANGR 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

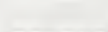
RS RUNNING SKYLINE

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8012</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>51</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1666</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 20 acres VC5 11 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 51 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 50 acres Very High 0 acres
Cedar 0 Hemlock 49 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Replanting of yellow and red cedar should be considered.
Recommendation is to perform a prescribed burn after harvest is completed to promote regeneration.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

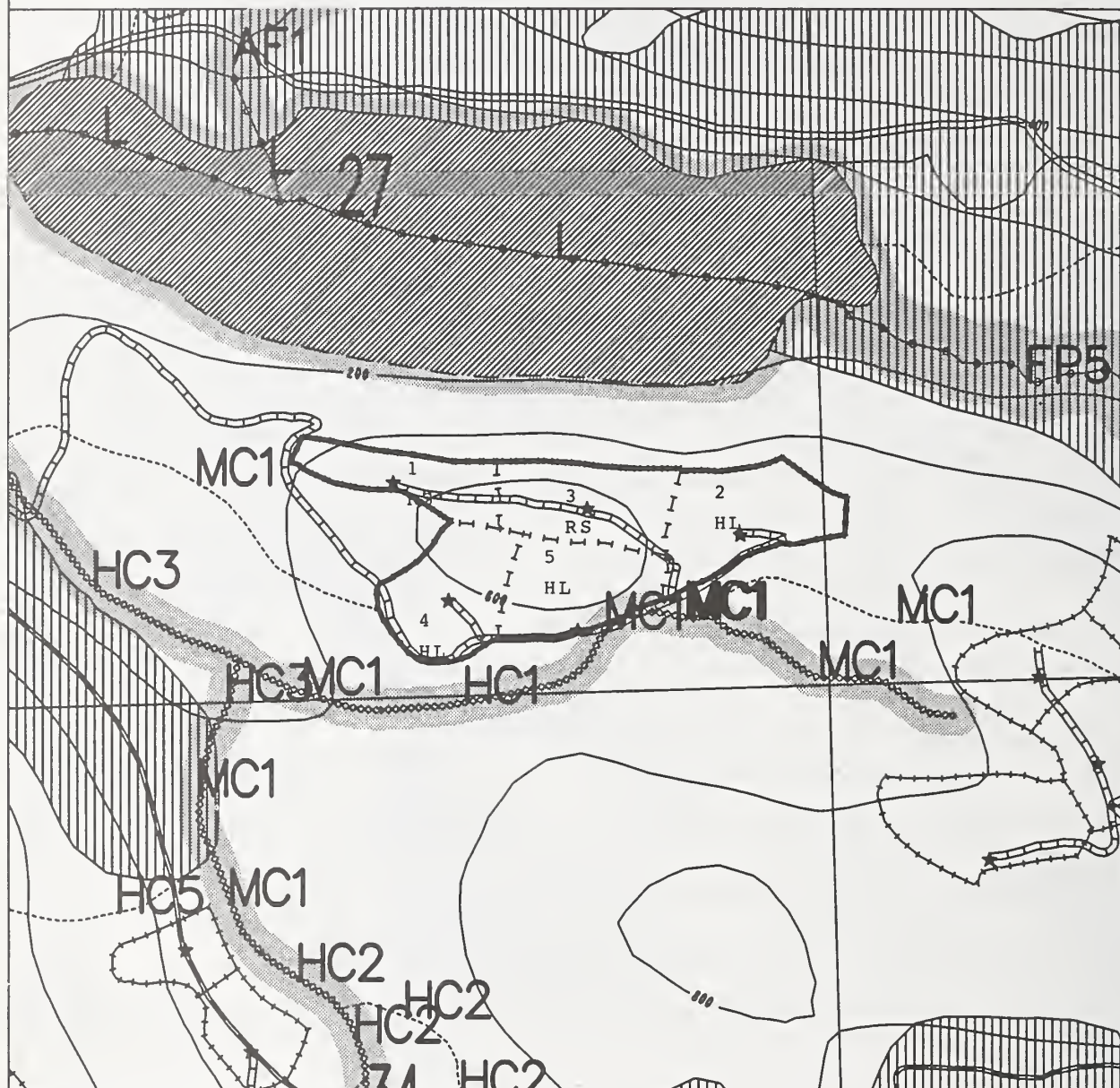
VCU: 7380

UNIT NUMBER: 8012

PLANNED HARVEST UNIT MAP

ACRES: 51 VOLUME: 1666 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (⊕)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8013</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>39</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>974</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 39 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 35 acres 800-1200 ft. 4 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 29 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 38 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.93 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 8014	No. Settings 2	Alternatives considered 2 3 5 6	VQO MM
Planned acres 26		Quad KTNC5NWS	Windthrow risk H
Estimated volume (mbf) 700		Mgmt Area K32 VCU 7380	Plant Series CCD
Logging methods HL		WAA 510	Forest type Hemlock
Silvicultural system Clearcut		1981 Photo 1179-17	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 18 acres VC5 8 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 26 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 24 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.62 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

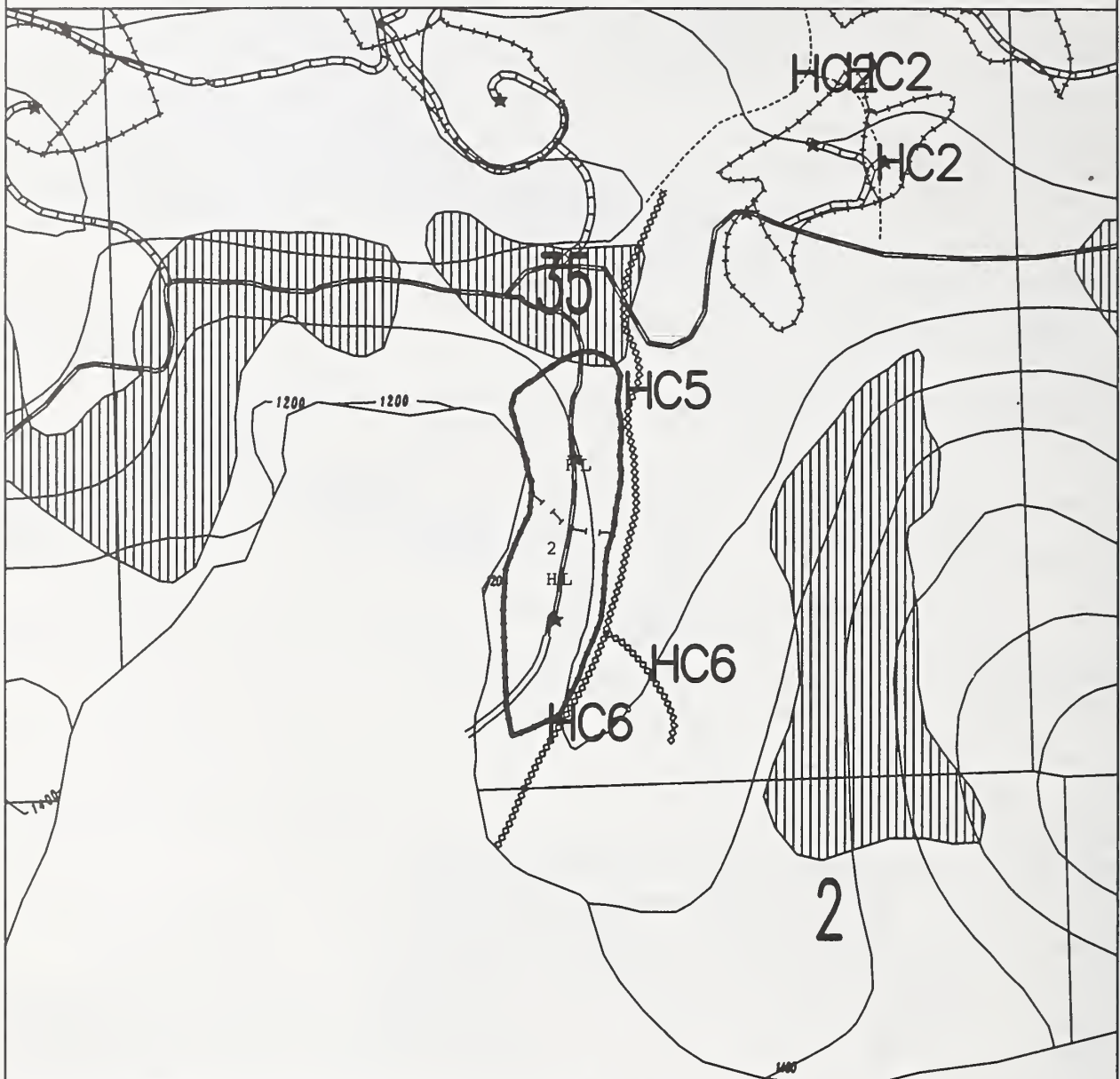
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8014

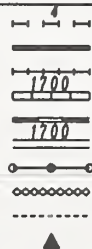
PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 700 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8015</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 4 5 6</u>	VQO <u>MM</u>
Planned acres <u>19</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>475</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 17 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 4 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 18 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.32 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

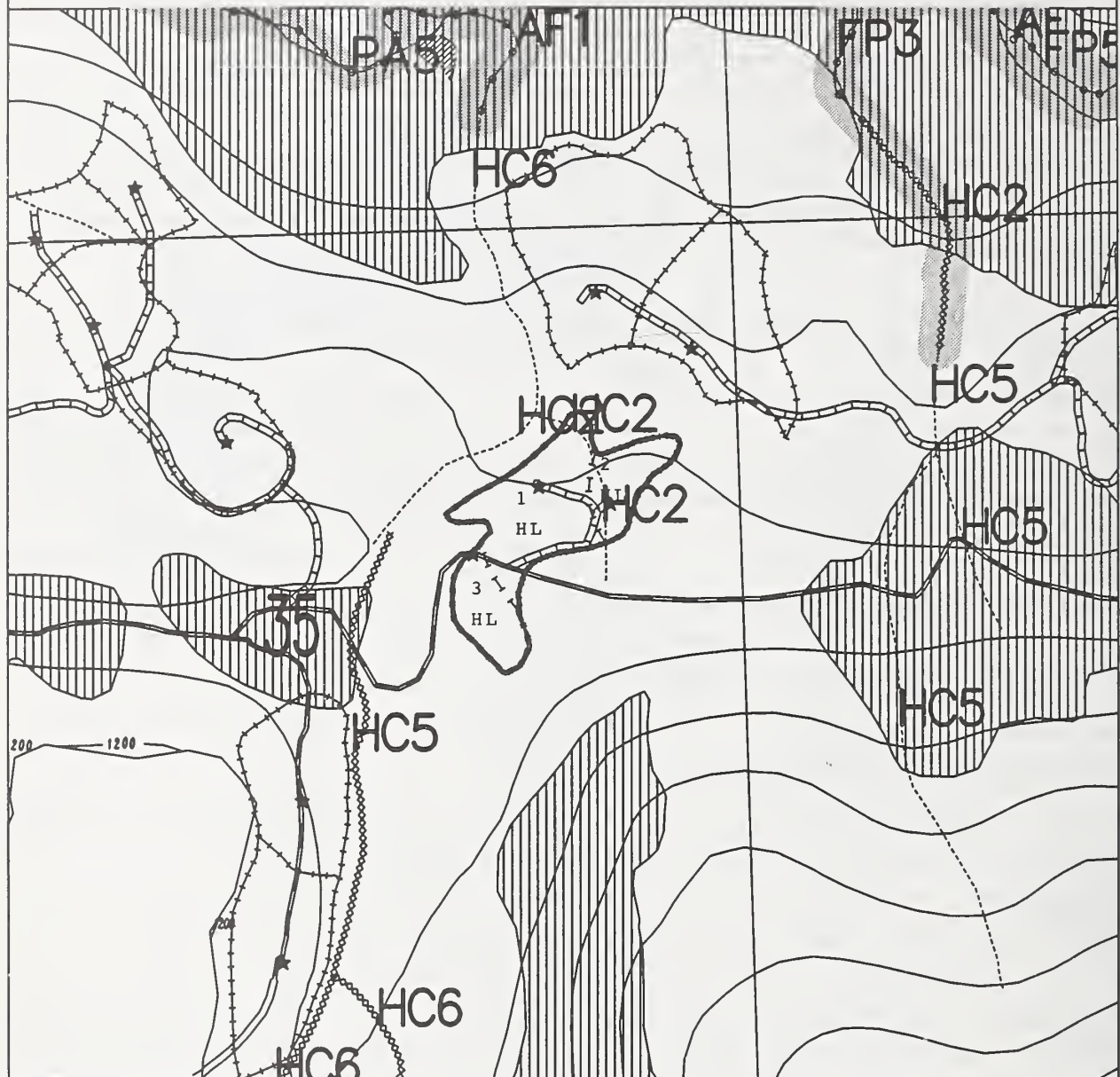
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8015

PLANNED HARVEST UNIT MAP

ACRES: 19 VOLUME: 475 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8016</u>	No. Settings <u>2</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>MM</u>
Planned acres <u>40</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1248</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 39 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 40 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 6 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

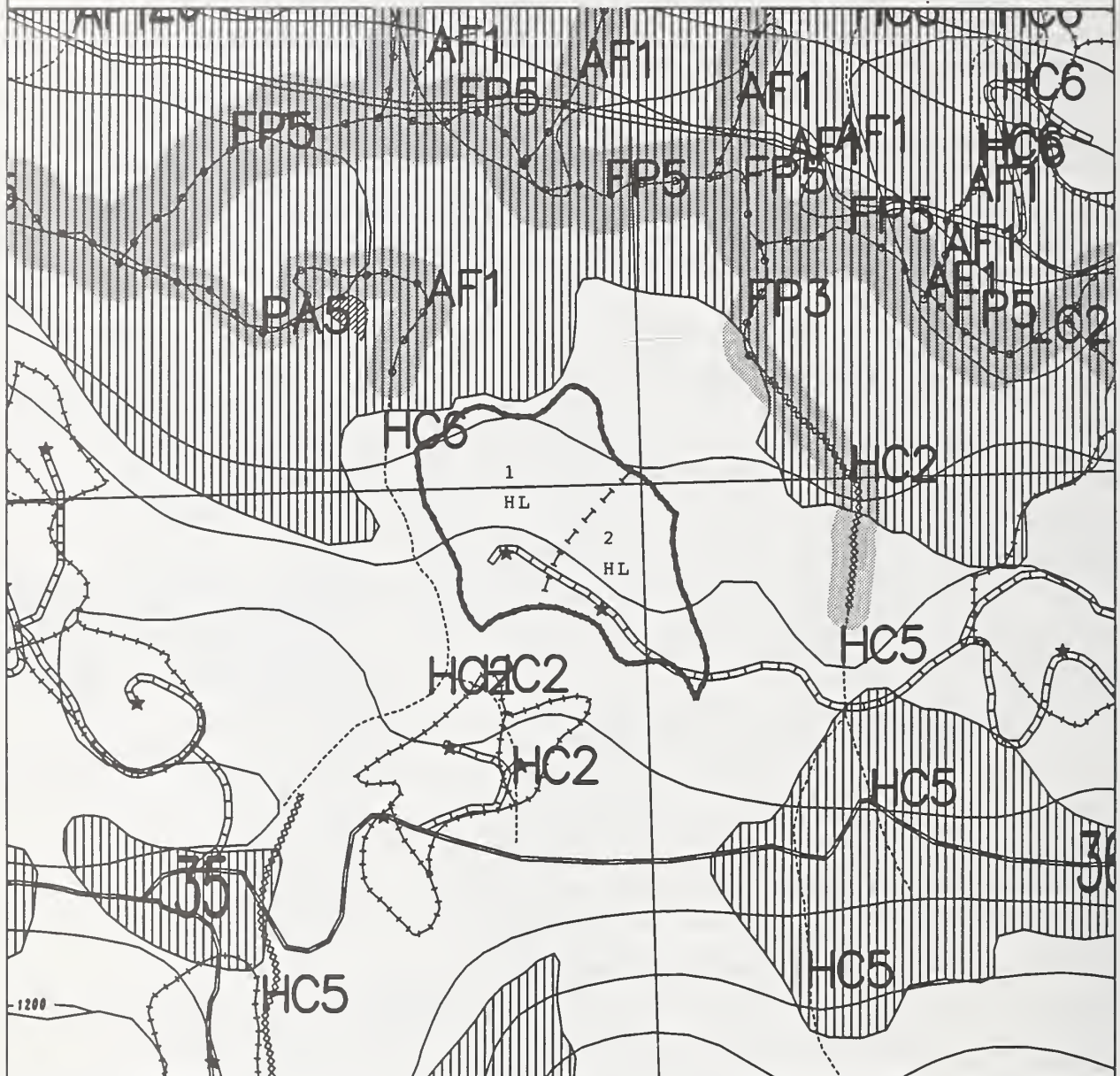
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8016

PLANNED HARVEST UNIT MAP

ACRES: 40 VOLUME: 1248 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8017</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1078</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 32 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 35 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 6 acres High 6 acres Very High 23 acres
Cedar 0 Hemlock 34 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 30 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

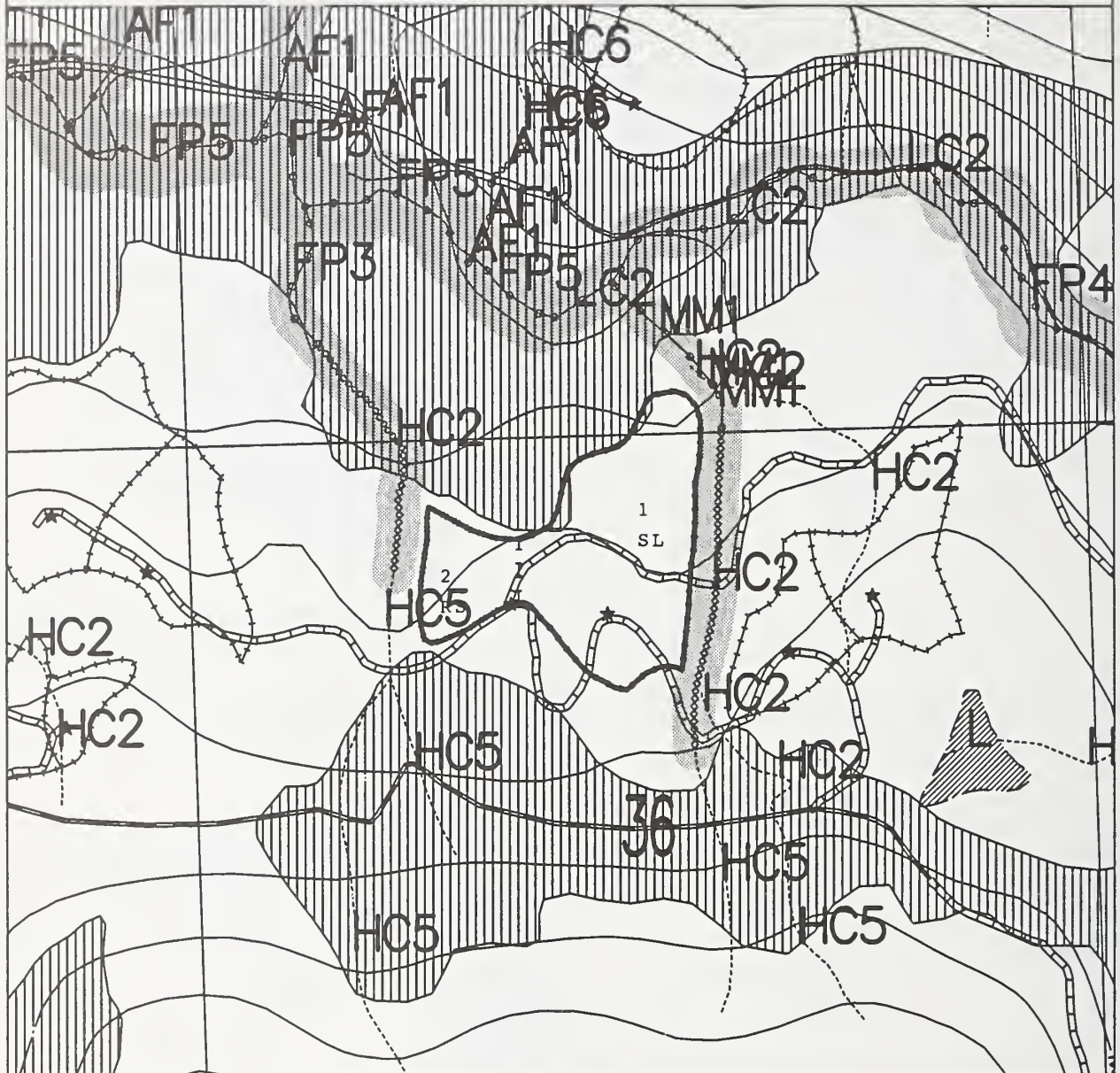
VCU: 7380

UNIT NUMBER: 8017

PLANNED HARVEST UNIT MAP

ACRES: 35 VOLUME: 1078 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 Intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BATTLE TREE (circle with cross)
 EXISTING CLEARCUT (hatched box)
 SALTWATER AND LAKES (wavy line)
 CLASS I & II STREAM BUFFER (thick line)

LOGGING SYSTEMS:

SL SLACKLINE
 RS RUNNING SKYLINE

SHELTERWOOD (cross-hatched box)
 HARVEST (diagonal hatched box)
 BEACH BUFFER (thick solid line)



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8018</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>4</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>75</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2352</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 75 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 31 acres 800-1200 ft. 27 acres 1200-1500 ft. 17 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 0 acres High 70 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 75 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 75 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 69 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 4 streams which have fish passage requirements, of these passes 4 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

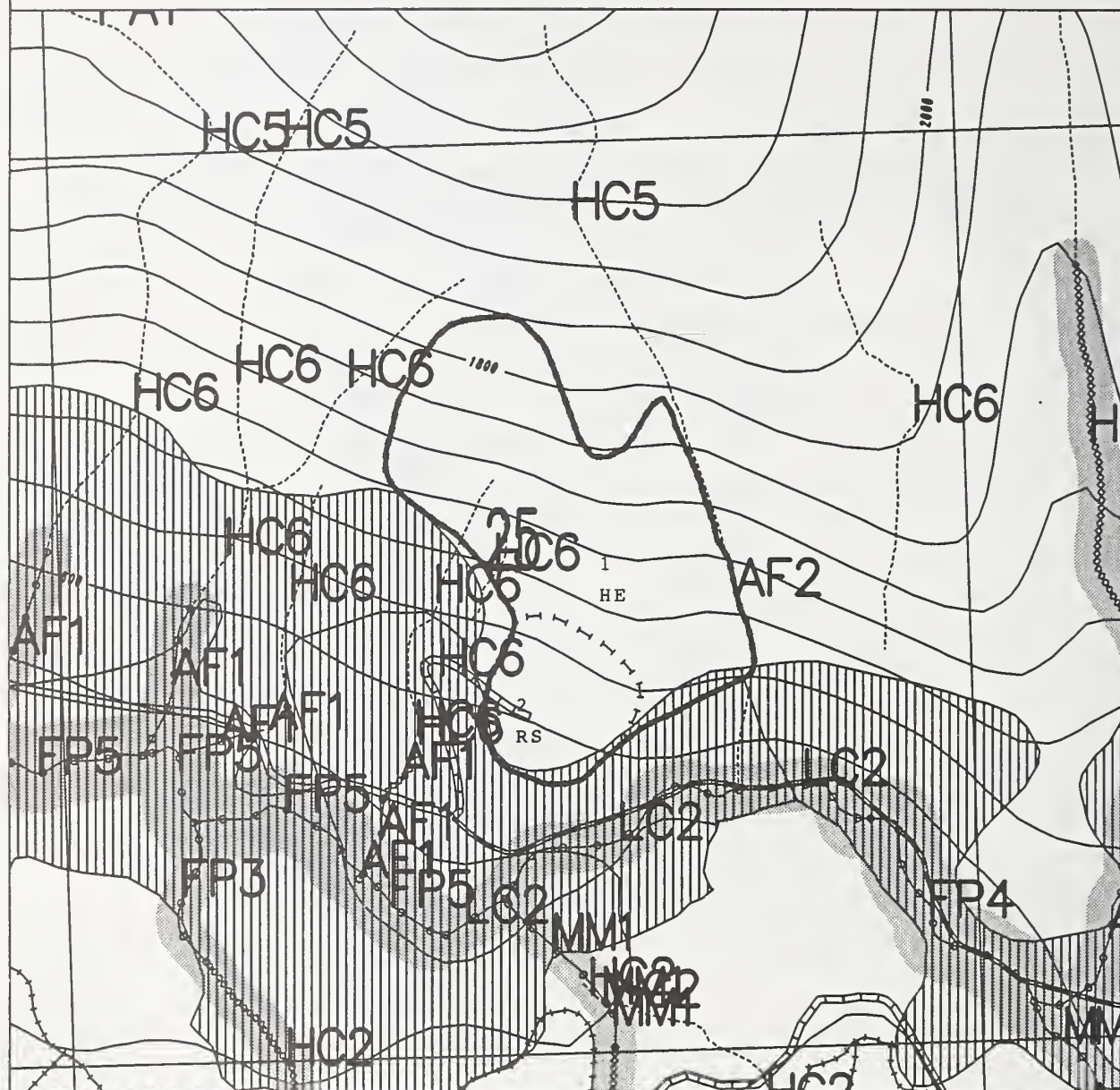
VCU: 7380

UNIT NUMBER: 8018

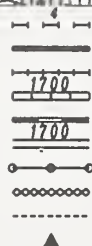
PLANNED HARVEST UNIT MAP

ACRES: 75 VOLUME: 2352 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN/NWS
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8019</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>34</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1066</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>MHB</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 0 acres 1200-1500 ft. 1 acres over 1500 ft. 7 acres
Mass movement index: Low 0 acres Medium 0 acres High 22 acres Very High 12 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has very high mass movement index soils.

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 30 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

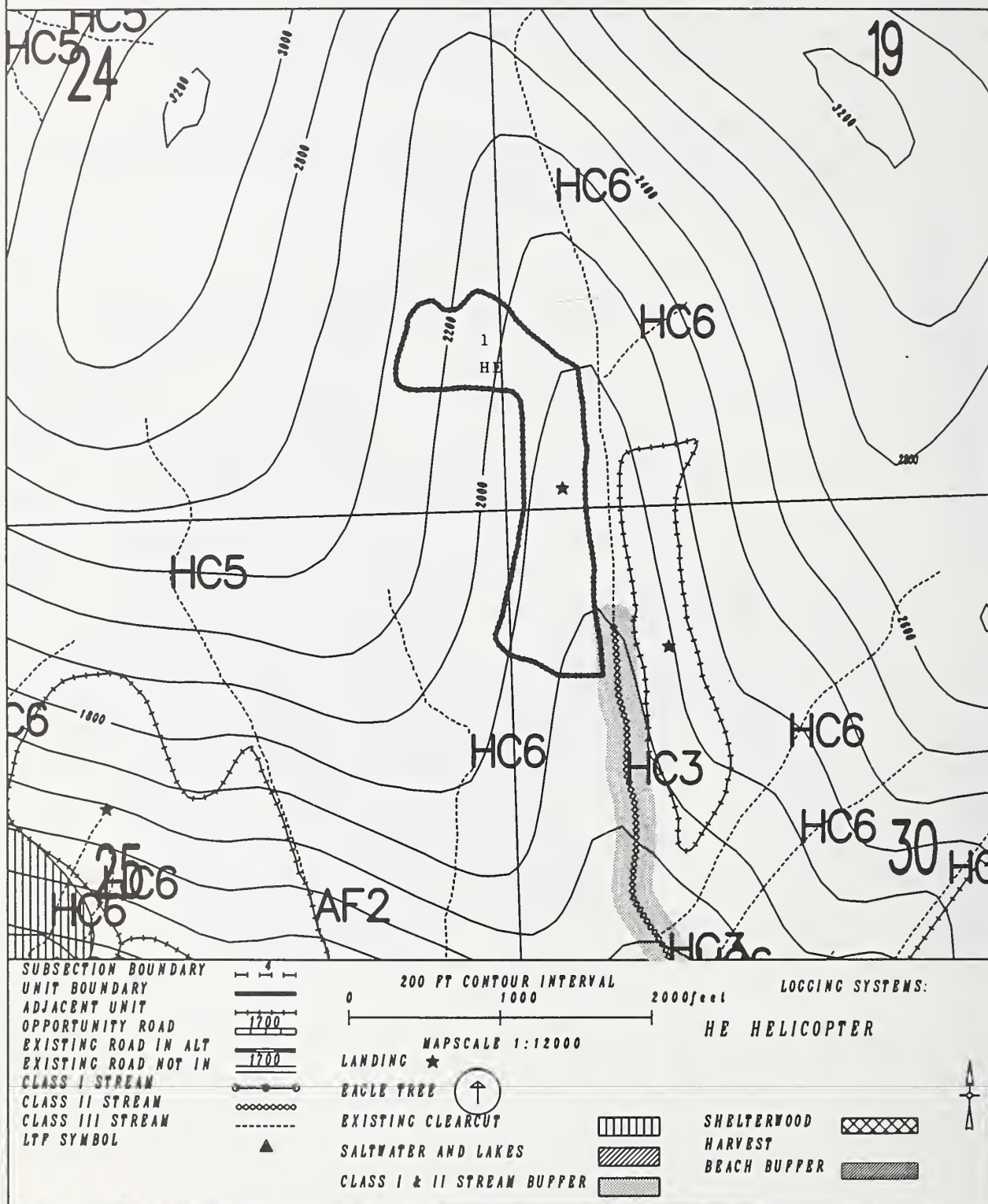
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8019

PLANNED HARVEST UNIT MAP

ACRES: 34 VOLUME: 1066 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8020</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>23</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>722</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 23 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 23 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 20 acres Very High 3 acres
Cedar 0 Hemlock 21 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has very high mass movement index soils.

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8020

PLANNED HARVEST UNIT MAP

ACRES: 23VOLUME: 722

MBP

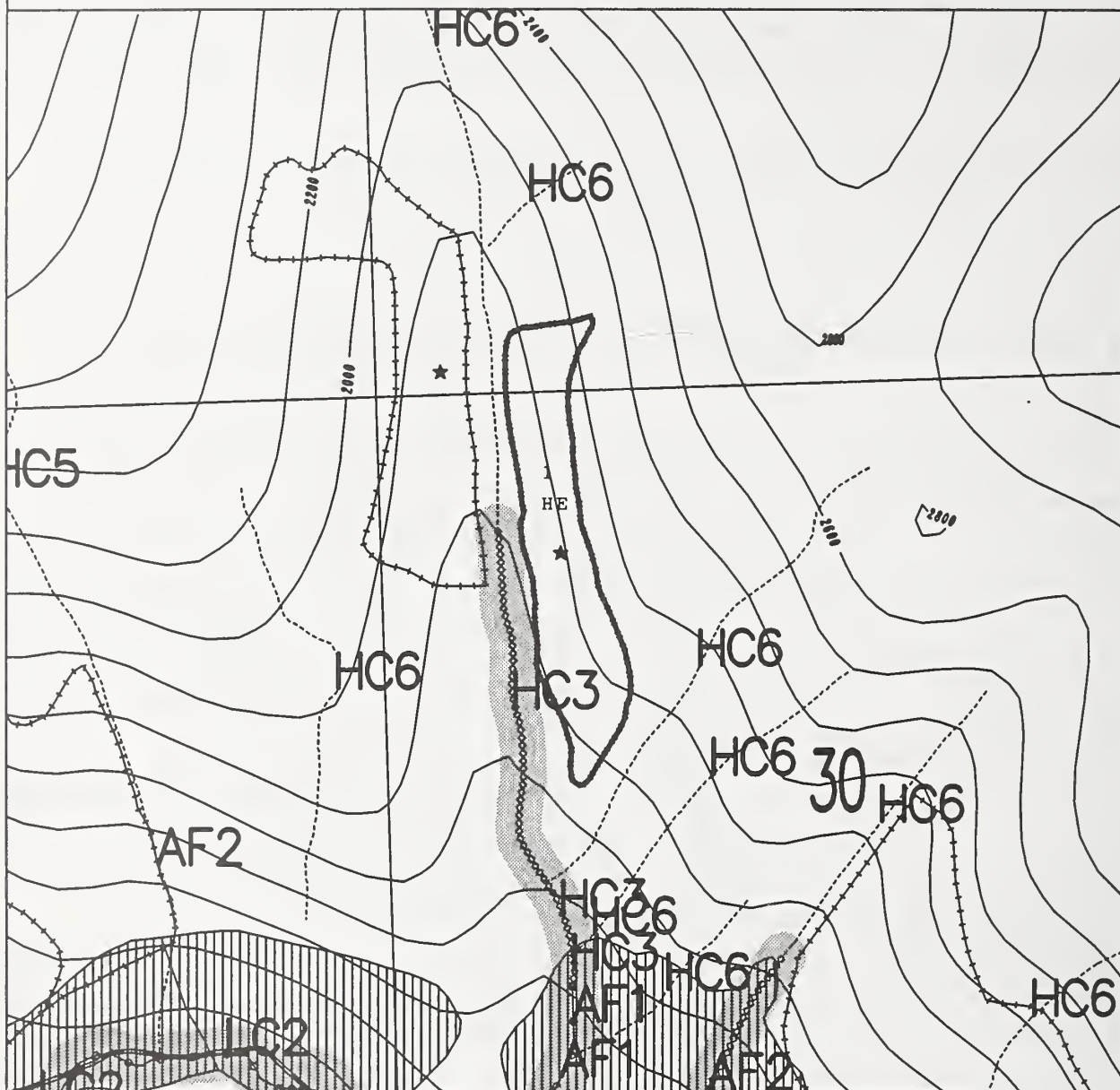
QUAD(s): KTNC5QUARTER QUAD(s): NWN/NWSPHOTO NUM.: 1179-18

LANDNET INFO

TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD



HARVEST



BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8021</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>24</u>	Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>	
Estimated volume (mbf) <u>753</u>	Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>	
Logging methods <u>RS</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>	
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-17</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 7 acres 800-1200 ft. 17 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 0 acres Very High 23 acres
Cedar 0 Hemlock 23 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

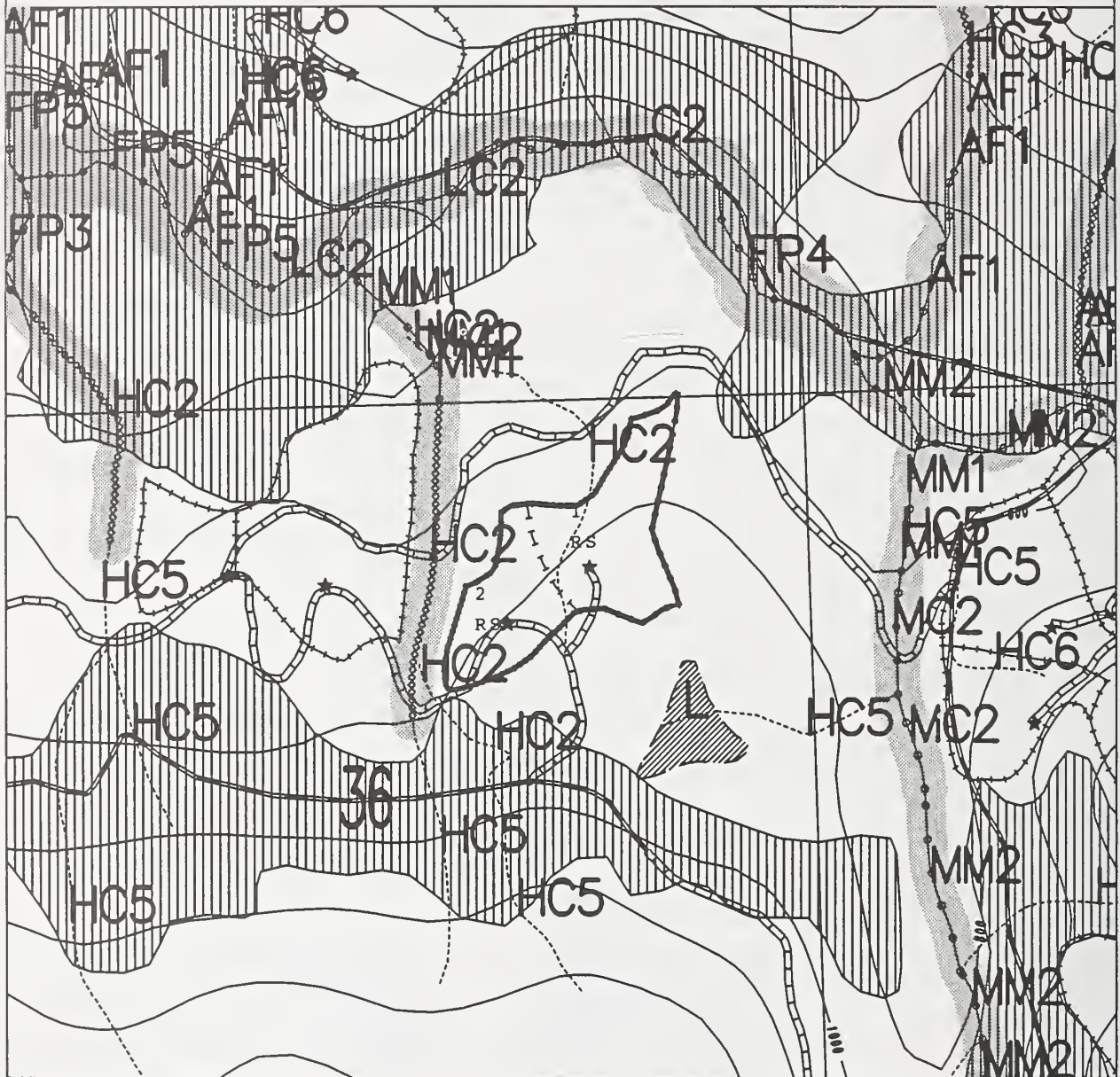
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8021

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 753 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BRACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 8022 No. Settings 4 Alternatives considered 2 4 6 VQO MM
Planned acres 68 Quad KTNC5NWS Windthrow risk H
Estimated volume (mbf) 1777 Mgmt Area K32 VCU 7380 Plant Series CCS
Logging methods HL WAA 510 Forest type Mixed conifer
Silvicultural system Clearcut 1981 Photo 1179-17

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 56 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 36 acres 1200-1500 ft. 12 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 26 acres High 39 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 35 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 68 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 39 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.74 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 4 streams which have fish passage requirements, of these passes 4 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8022

PLANNED HARVEST UNIT MAP

ACRES: 68VOLUME: 1777

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWS

PHOTO NUM.:

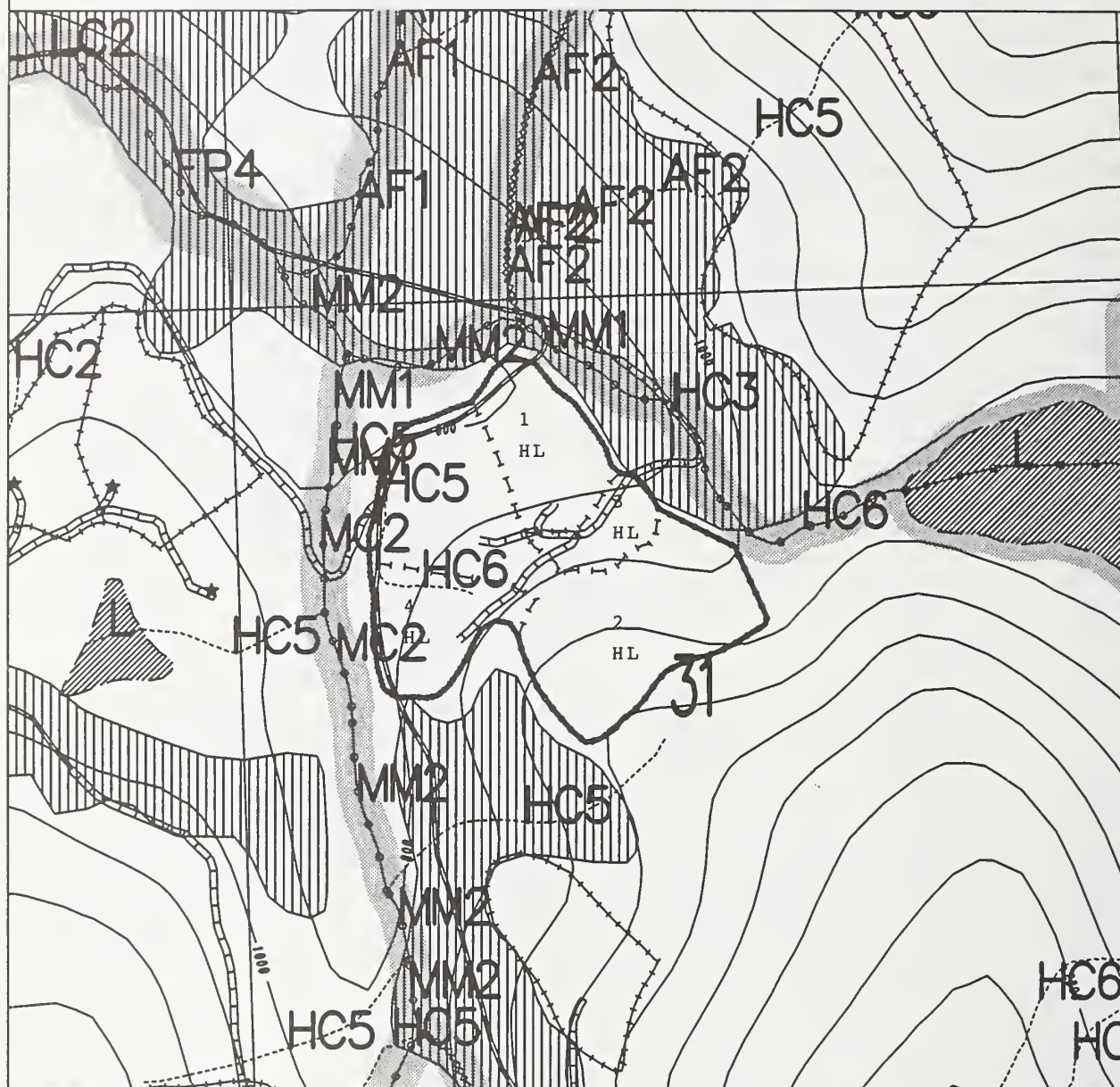
1179-17

LANDNET INFO

TOWNSHIP

71SRANGR 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
HARVEST
BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8023</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	<u>6</u>	VQO <u>MM</u>
Planned acres <u>89</u>		Quad <u>KTNC5NWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2961</u>		Mgmt Area <u>K32</u>	VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 63 acres VC6 21 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 52 acres 800-1200 ft. 2 acres 1200-1500 ft. 31 acres over 1500 ft. 4 acres
Mass movement index: Low 0 acres Medium 53 acres High 36 acres Very High 0 acres
Cedar 0 Hemlock 79 Mixed 9 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 89 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 35 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

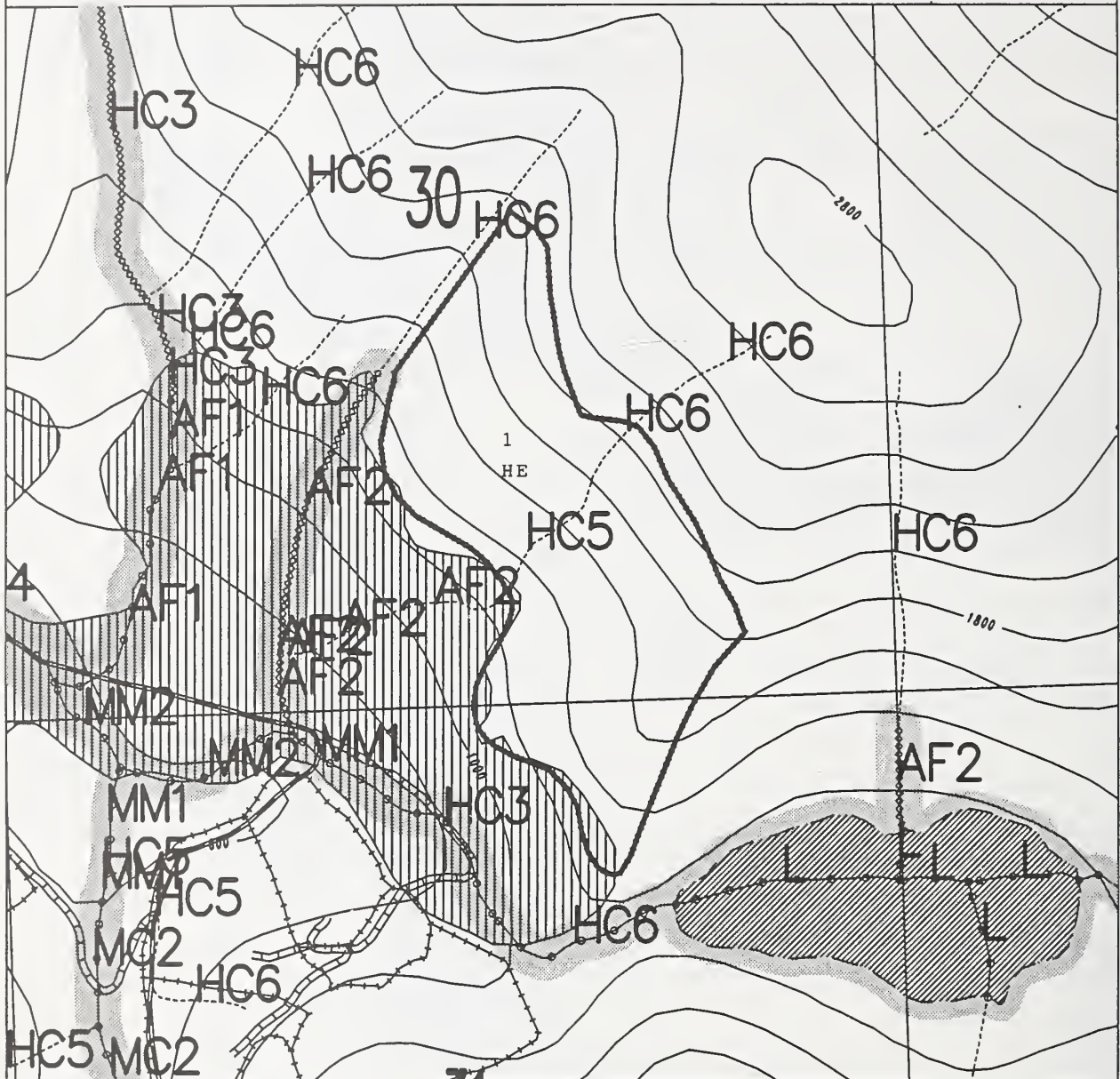
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8023

PLANNED HARVEST UNIT MAP

ACRES: 89 VOLUME: 2961 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



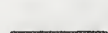
SHELTERWOOD



HARVEST



BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8024</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>4</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>471</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 4 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 15 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.04 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8024

PLANNED HARVEST UNIT MAP

ACRES: 15

VOLUME: 471

MBP

QUAD(s): KTNCS

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-17

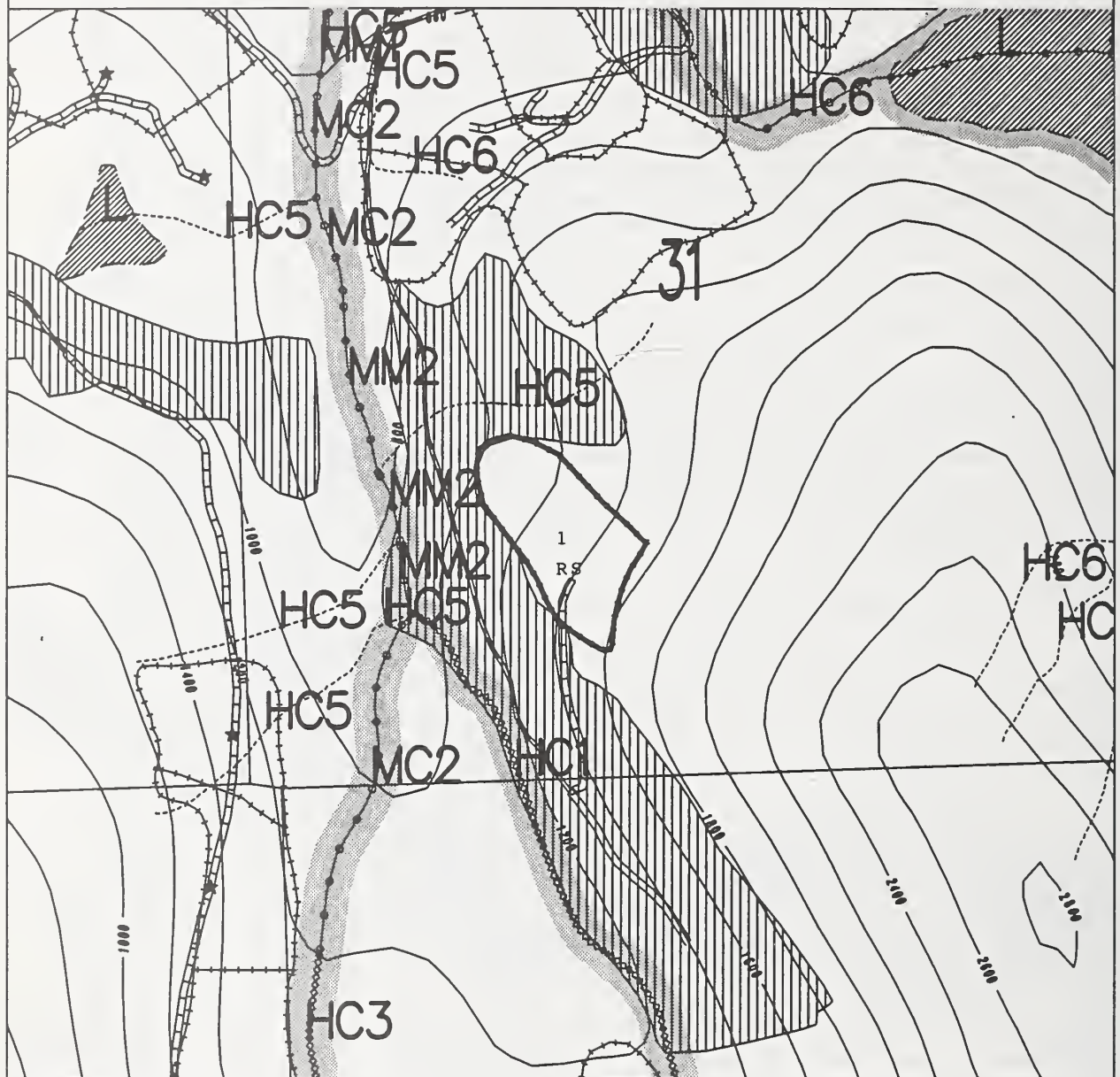
LANDNET INFO

TOWNSHIP

71S

RANCR 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8025</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 4 5 6</u>	VQO <u>MM</u>
Planned acres <u>43</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1305</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 36 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 5 acres 1200-1500 ft. 32 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 41 acres Very High 0 acres
Cedar 0 Hemlock 3 Mixed 39 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 43 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 40 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.42 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

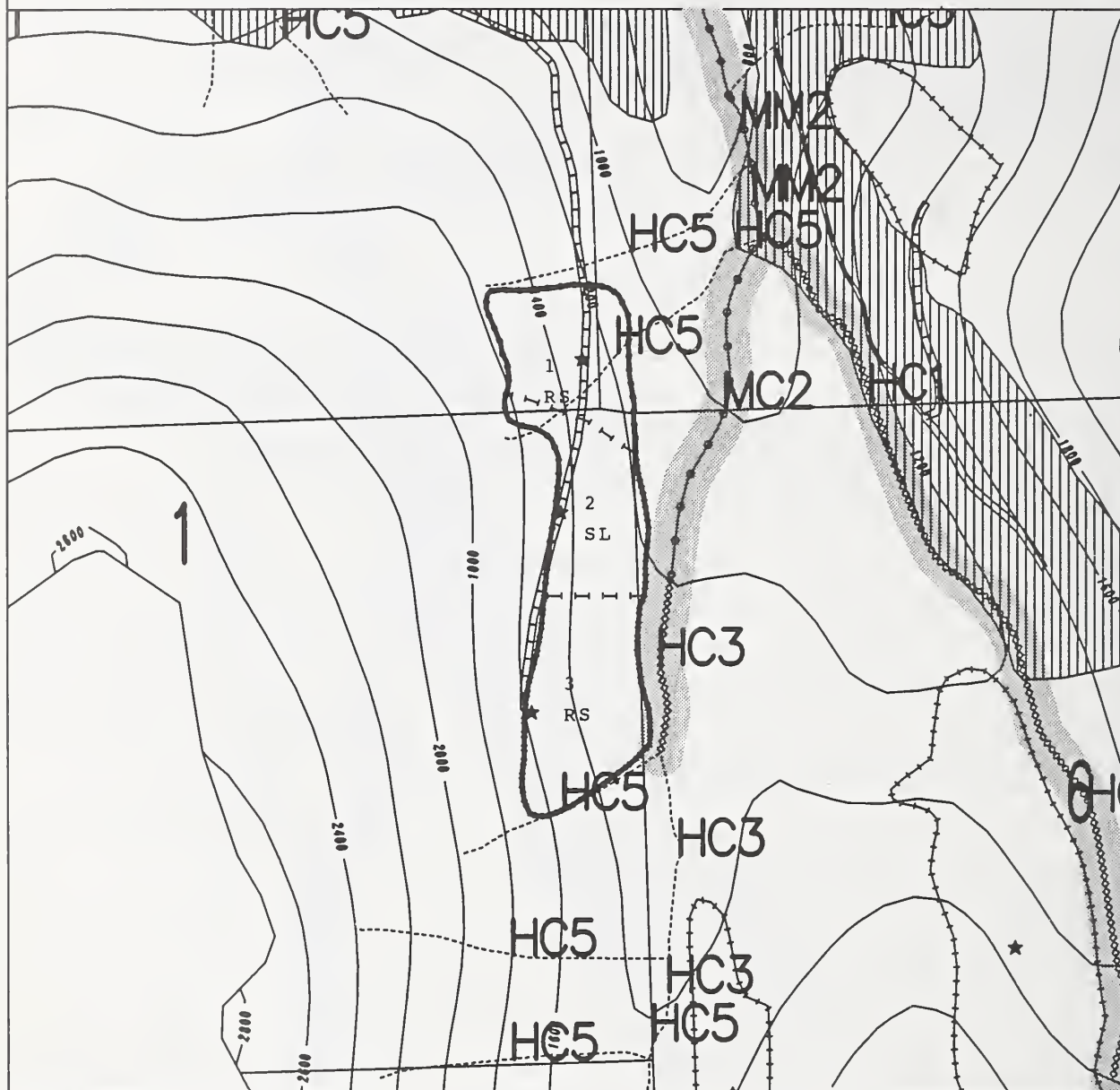
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8025

PLANNED HARVEST UNIT MAP

ACRES: 43 VOLUME: 1305 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8026</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 5 6</u>	VQO <u>MM</u>
Planned acres <u>19</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>596</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 19 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 3 acres over 1500 ft. 0 acres
Mass movement index: Low 19 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 19 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

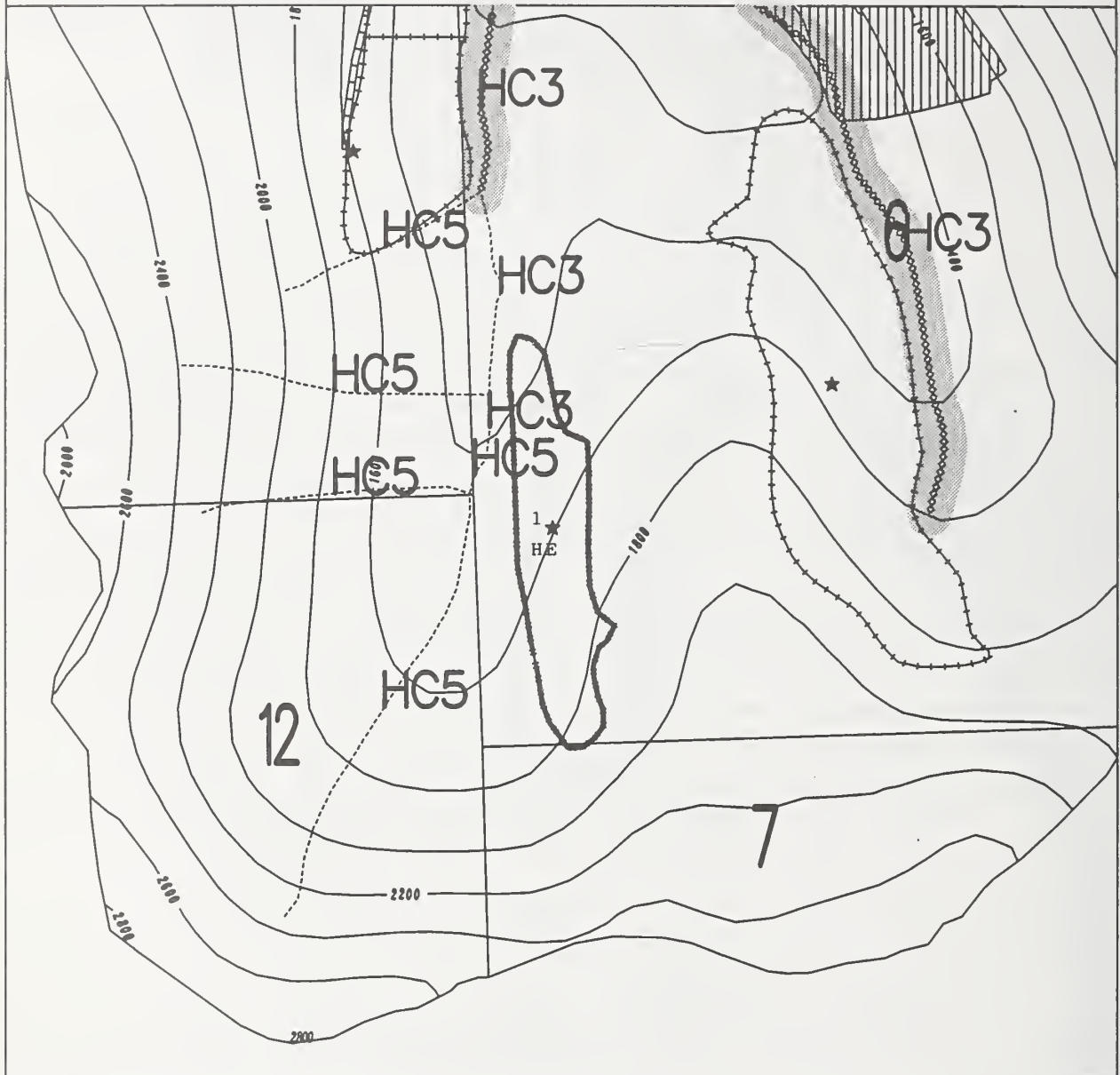
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8026

PLANNED HARVEST UNIT MAP

ACRES: 19 VOLUME: 596 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 72S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (⊕)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER

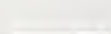


SHELTERWOOD

HARVEST



BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8027</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 5 6</u>	VQO <u>MM</u>
Planned acres <u>56</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1756</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>ROC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 56 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 33 acres 800-1200 ft. 1 acres 1200-1500 ft. 22 acres over 1500 ft. 0 acres
Mass movement index: Low 51 acres Medium 2 acres High 0 acres Very High 3 acres
Cedar 0 Hemlock 56 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 3 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

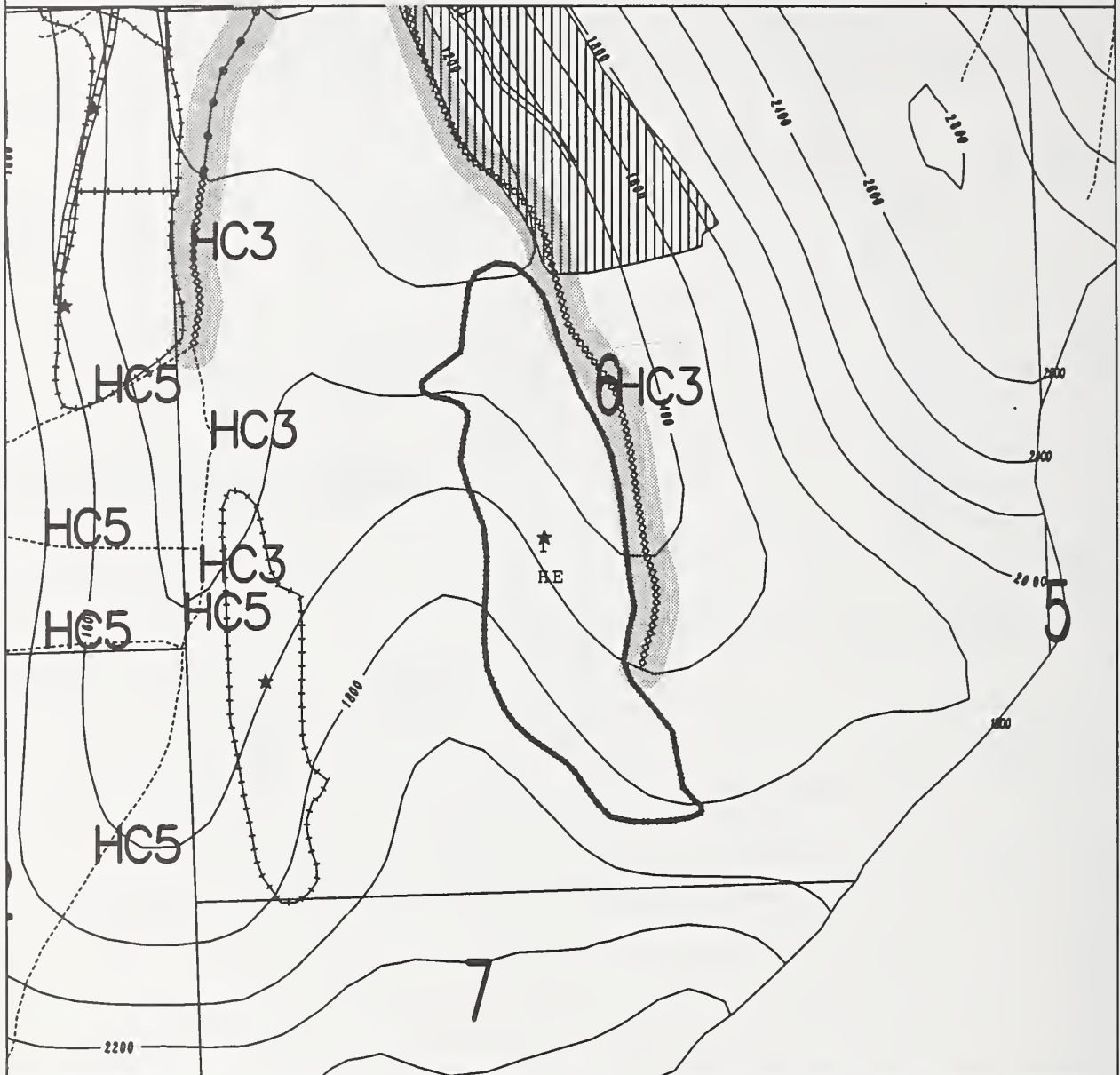
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8027

PLANNED HARVEST UNIT MAP

ACRES: 56 VOLUME: 1756 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 72S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUPPER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8028</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>7</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>220</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 7 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 7 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 5 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 7 acres that may require partial or full suspension (BMP 13.9)
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 1.23 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

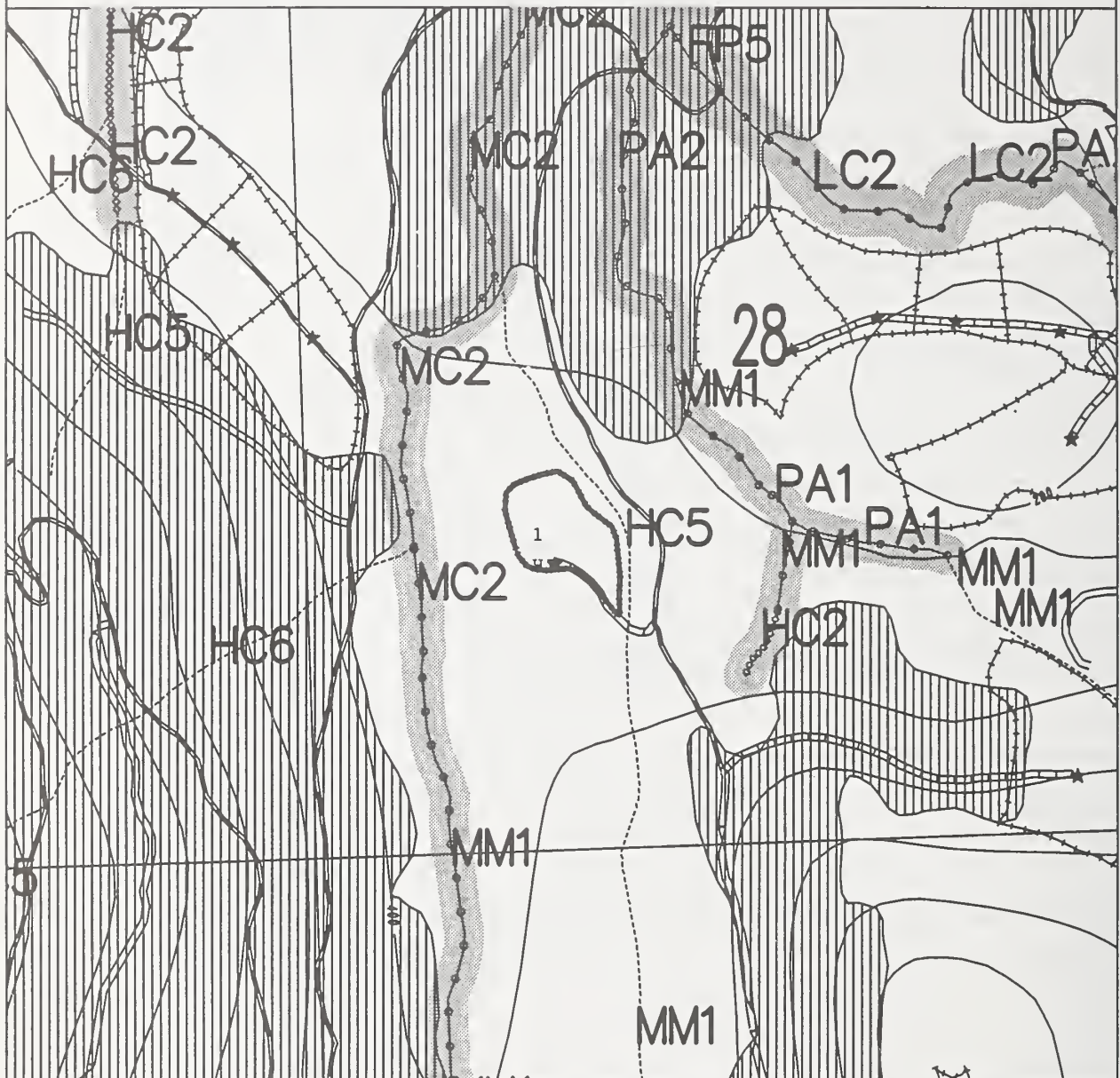
VCU: 7380

UNIT NUMBER: 8028

PLANNED HARVEST UNIT MAP

ACRES: 7 VOLUME: 220 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1279-11 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 BACLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8029</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>106</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3094</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 36 acres VC5 70 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 20 acres 1200-1500 ft. 35 acres over 1500 ft. 51 acres
Mass movement index: Low 0 acres Medium 0 acres High 106 acres Very High 0 acres
Cedar 0 Hemlock 103 Mixed 0 Percent Seen 25 Percent Unseen 75 Aspect West

SOILS

This unit has 106 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 61 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 64 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.70 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

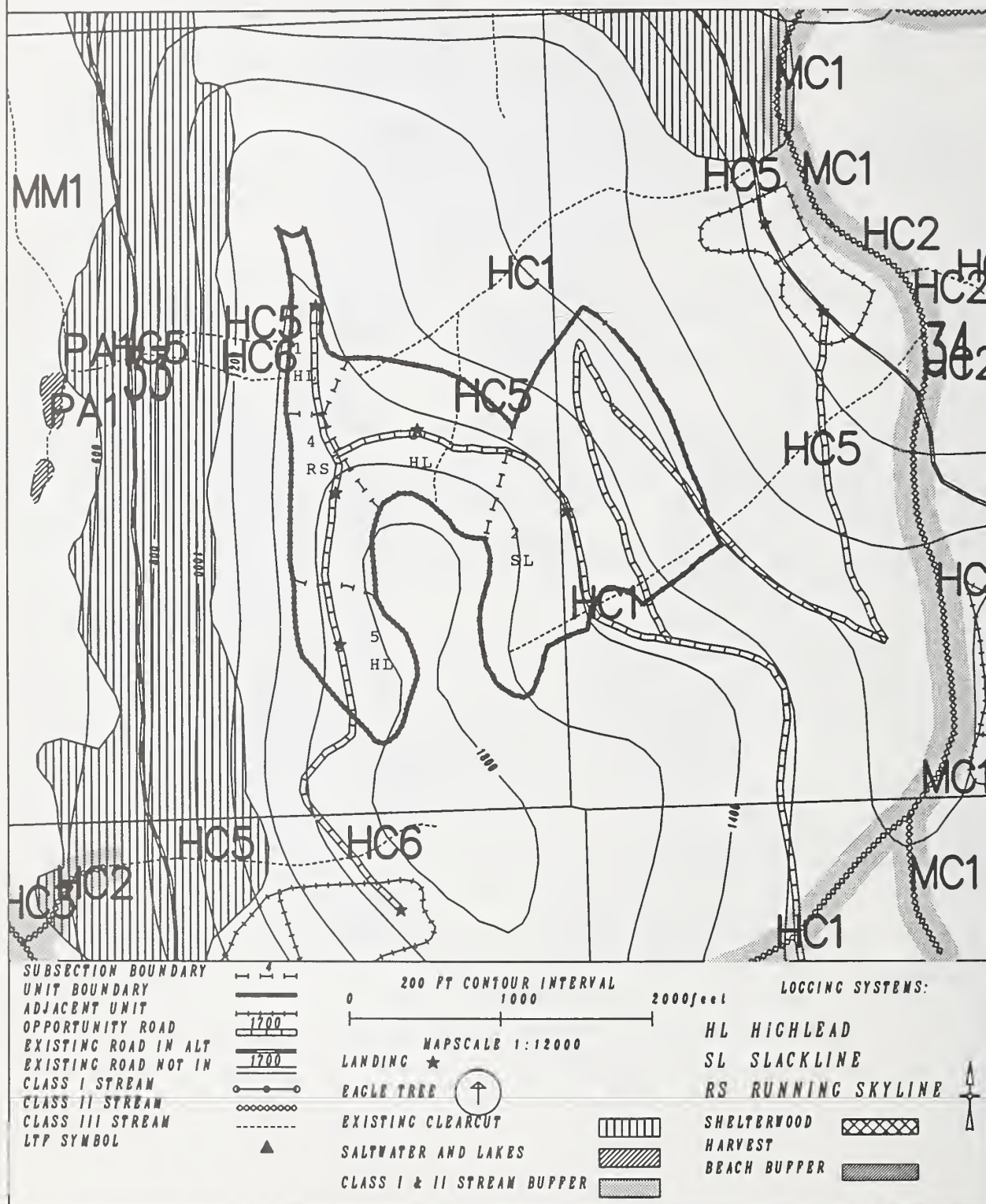
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8029

PLANNED HARVEST UNIT MAP

ACRES: 106 VOLUME: 3094 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8030</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 6</u>	VQO <u>PR</u>
Planned acres <u>14</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>439</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 3 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 14 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 10 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

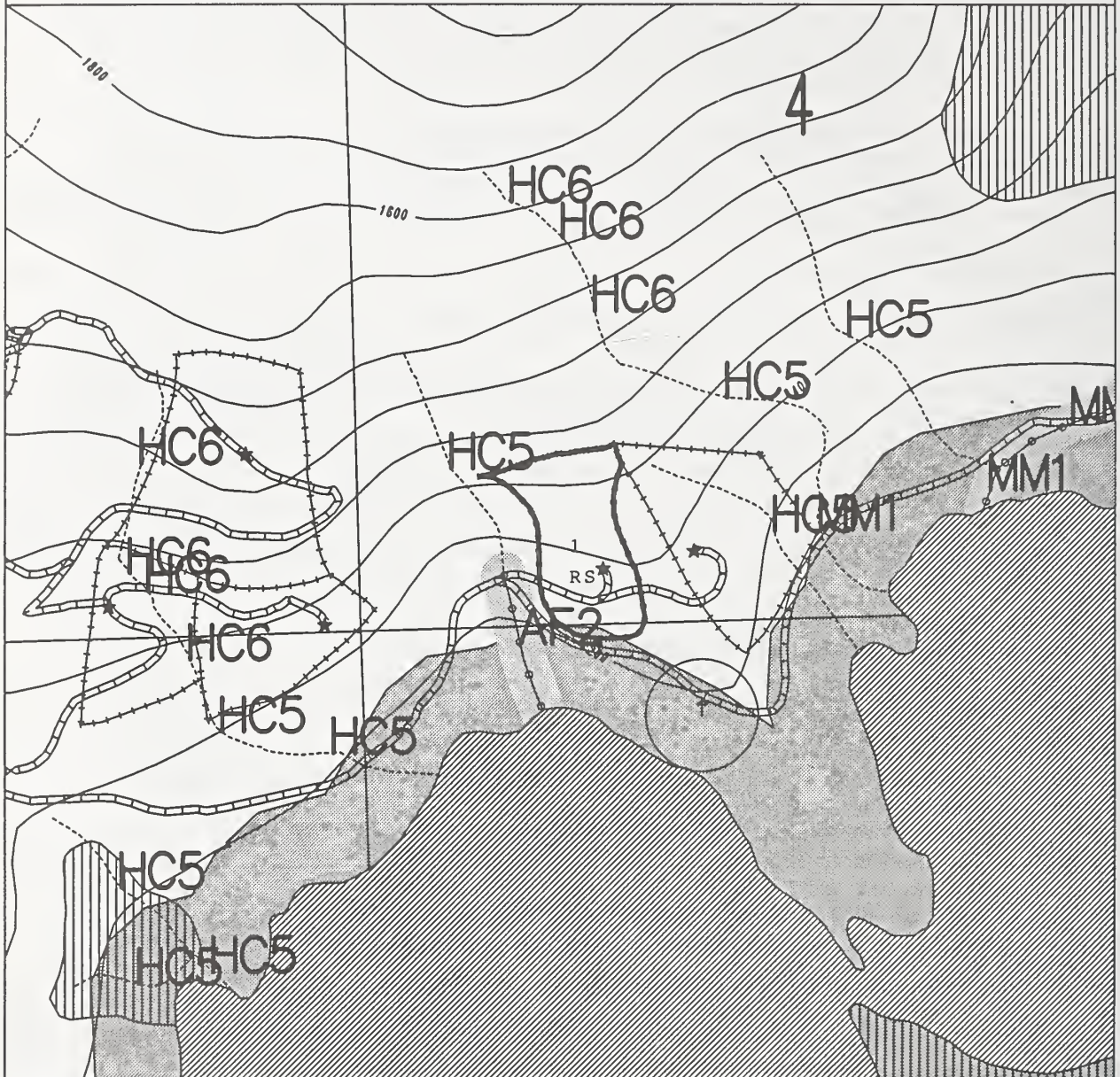
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8030

PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 439 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (circle with cross)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8031</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	<u>5</u>	VQO <u>MM</u>
Planned acres <u>11</u>		Quad <u>KTNC5NWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>274</u>		Mgmt Area <u>K32</u>	VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

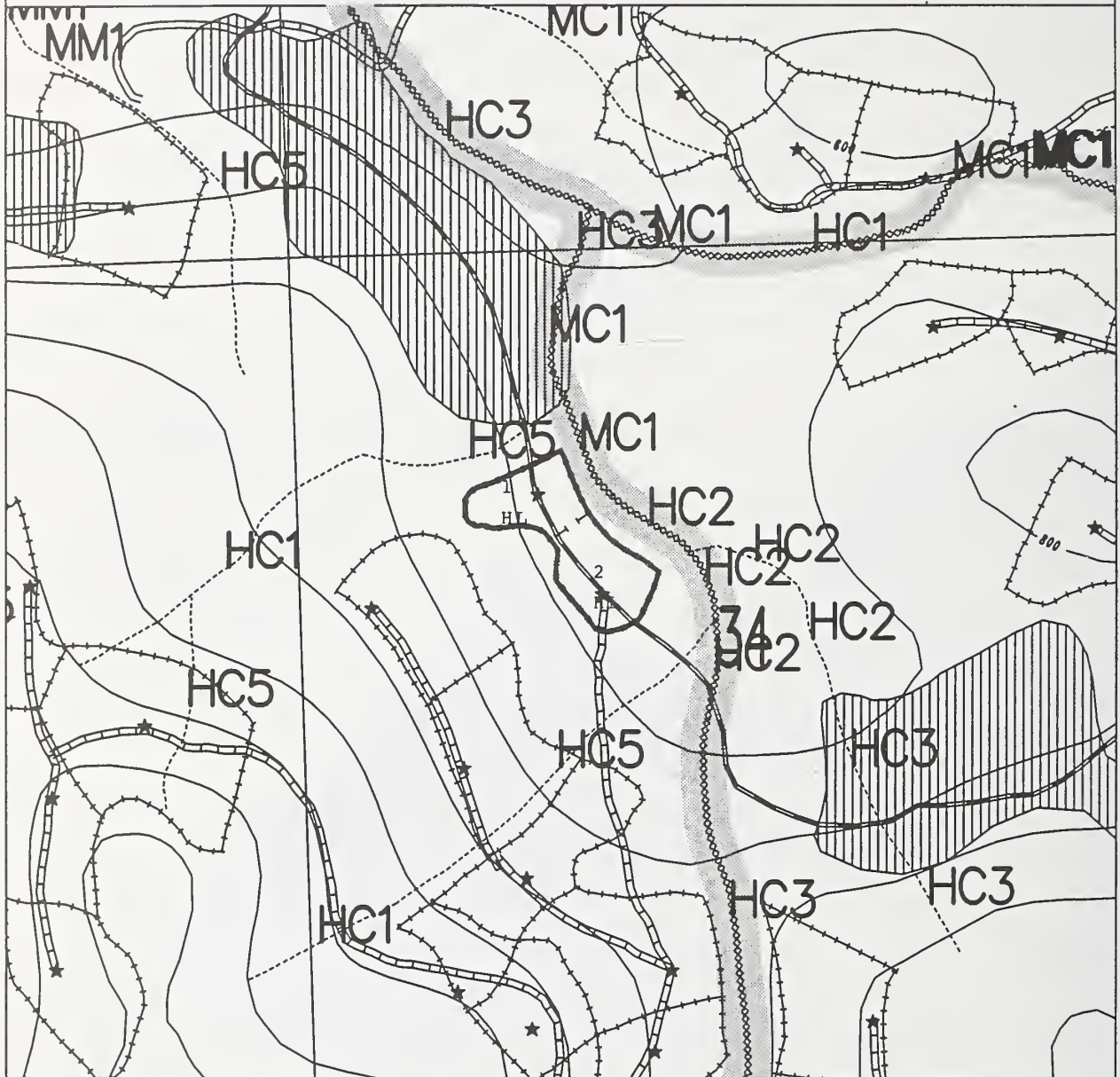
VCU: 7380

UNIT NUMBER: 8031

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 274 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

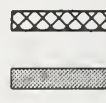
LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8032</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>17</u>	Quad <u>KINC5NWS</u>	Windthrow risk <u>H</u>	
Estimated volume (mbf) <u>514</u>	Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHM</u>	
Logging methods <u>HL</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>	
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-12</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 10 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 17 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

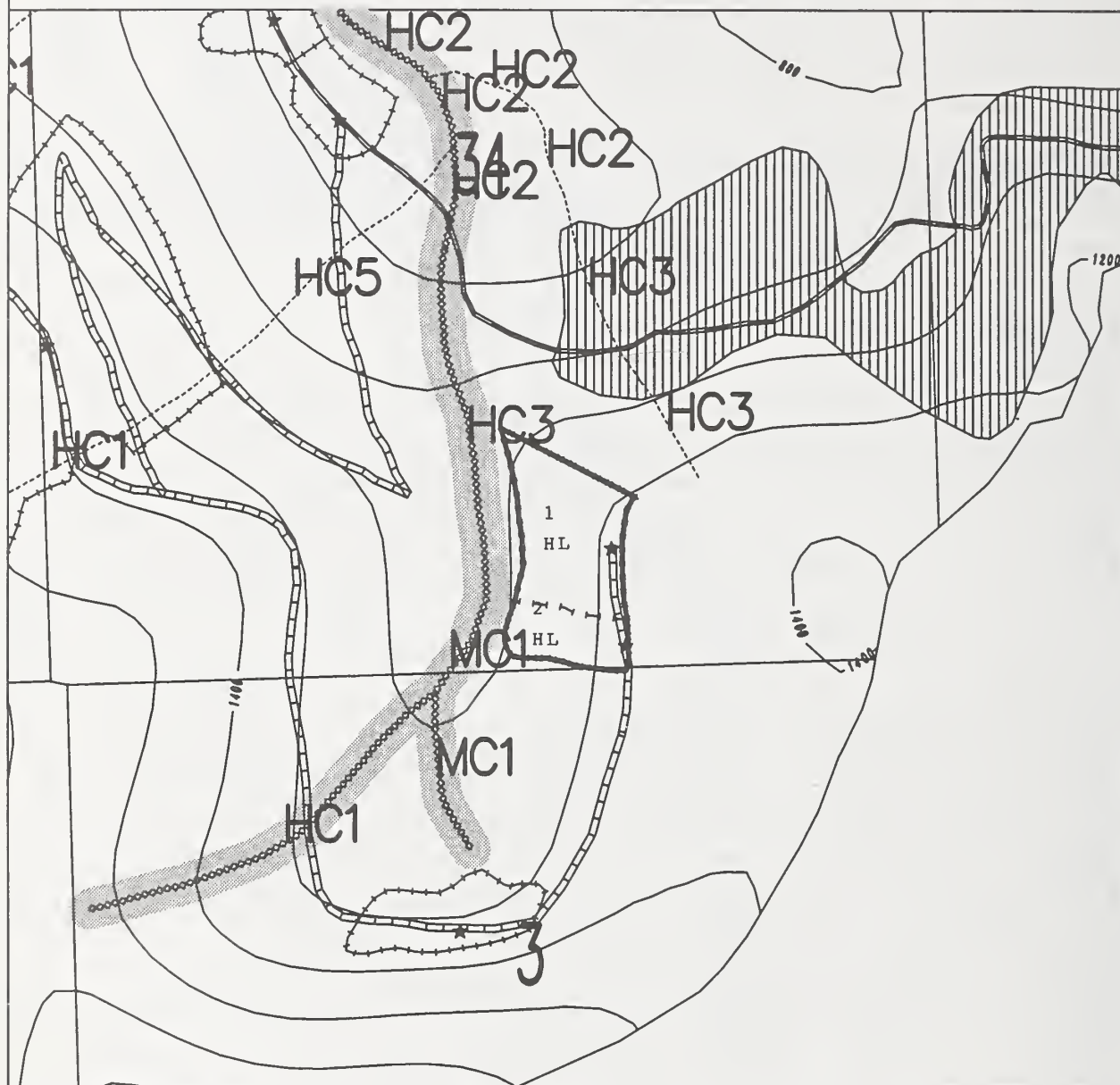
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8032

PLANNED HARVEST UNIT MAP

ACRES: 17 VOLUME: 514 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (circle with cross)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8033</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	<u>5</u>	VQO <u>MM</u>
Planned acres <u>8</u>		Quad <u>KTNC5NWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>251</u>		Mgmt Area <u>K32</u>	VCU <u>7380</u>	Plant Series <u>MHU</u>
Logging methods <u>HL</u>		WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 8 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 3 acres 1200-1500 ft. 5 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 8 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 8 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.22 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

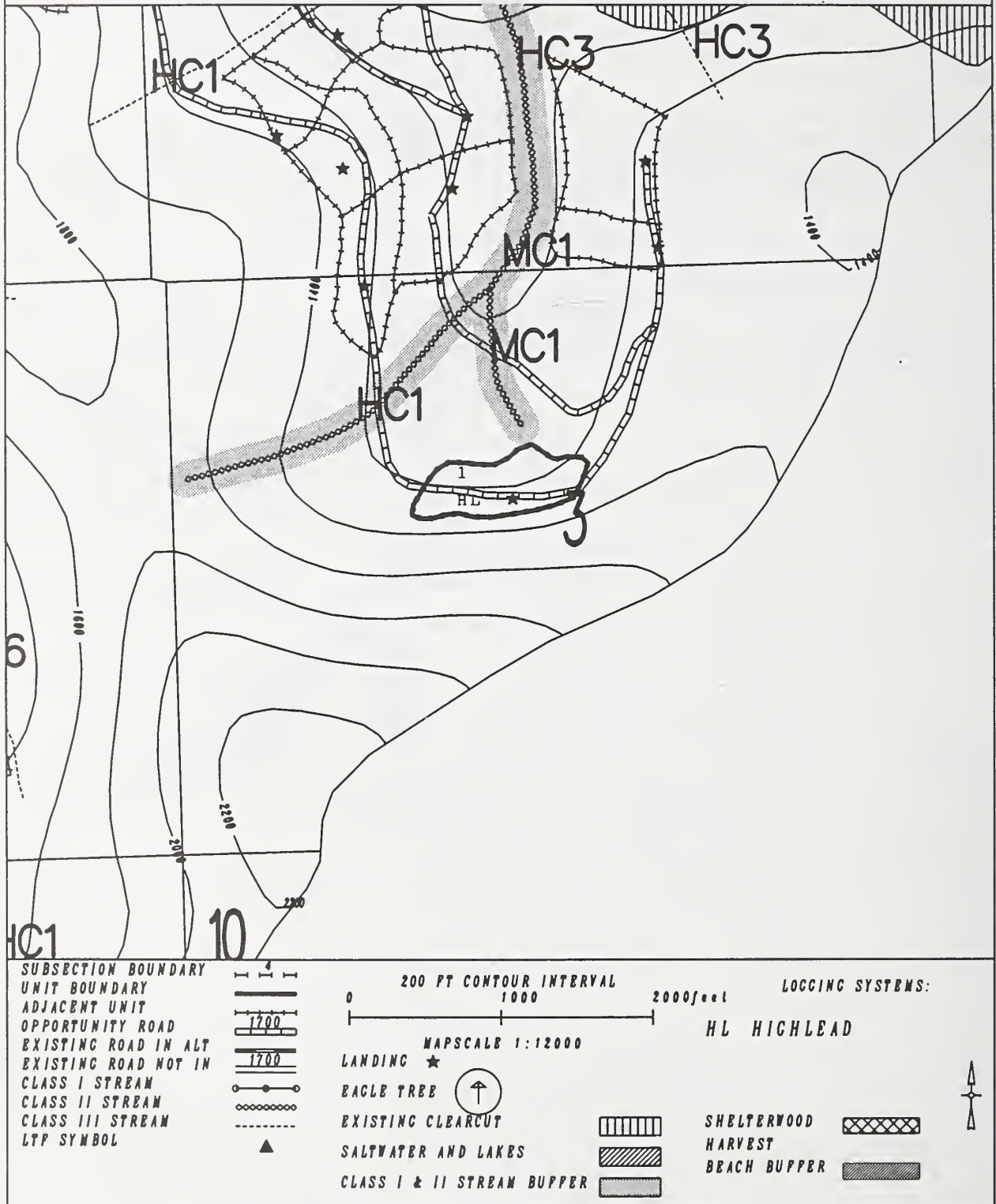
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8033

PLANNED HARVEST UNIT MAP

ACRES: 8 VOLUME: 251 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8034</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>39</u>	Quad <u>KTNCNWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1223</u>	Mgmt Area <u>K32</u> VCU <u>7380</u>		Plant Series <u>WDC</u>
Logging methods <u>SL</u>	WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-11</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 39 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 19 acres 1200-1500 ft. 10 acres over 1500 ft. 4 acres
Mass movement index: Low 4 acres Medium 0 acres High 35 acres Very High 0 acres
Cedar 0 Hemlock 39 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 33 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.09 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 39 VOLUME: 1223 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANCR 90E

The topographic map displays the study area with contour lines and elevation markers. The map includes a shaded area representing a specific geological feature and a hatched area representing another. A scale bar at the bottom right indicates a distance of 10 units. The map is labeled with various sampling points: HC1, HC2, HC3, HC5, and HC6. The map also shows a road network and a river system.

NAPSCALE 1:12000



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SL SLACKLINE

100

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8035</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>90</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2499</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>NME</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 61 acres VC5 22 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 46 acres 1200-1500 ft. 40 acres over 1500 ft. 4 acres
Mass movement index: Low 39 acres Medium 0 acres High 51 acres Very High 0 acres
Cedar 0 Hemlock 80 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 90 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 26 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 50 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.35 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

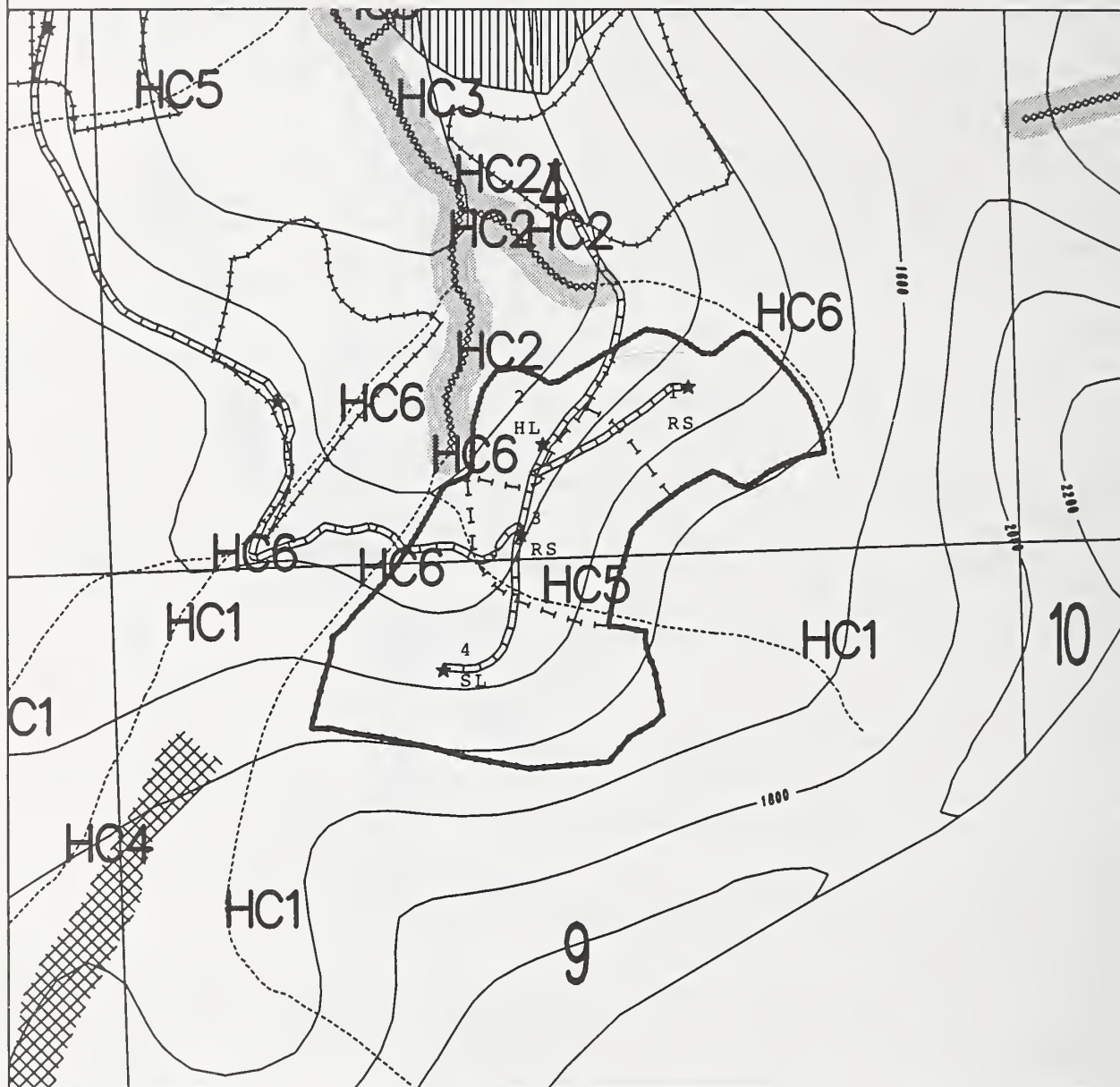
VCU: 7380

UNIT NUMBER: 8035

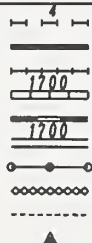
PLANNED HARVEST UNIT MAP

ACRES: 90 VOLUME: 2499 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD
 SL SLACKLINE
 SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 8036 No. Settings 1 Alternatives considered 2 4 VQO MM
Planned acres 27 Quad KTNC5NWS Windthrow risk H
Estimated volume (mbf) 1108 Mgmt Area K32 VCU 7380 Plant Series CMM
Logging methods HE WAA 510 Forest type Mixed conifer
Silvicultural system Shelter wood 1981 Photo 1179-11

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 27 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 0 acres 1200-1500 ft. 5 acres over 1500 ft. 21 acres
Mass movement index: Low 22 acres Medium 0 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 25 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 27 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 4 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

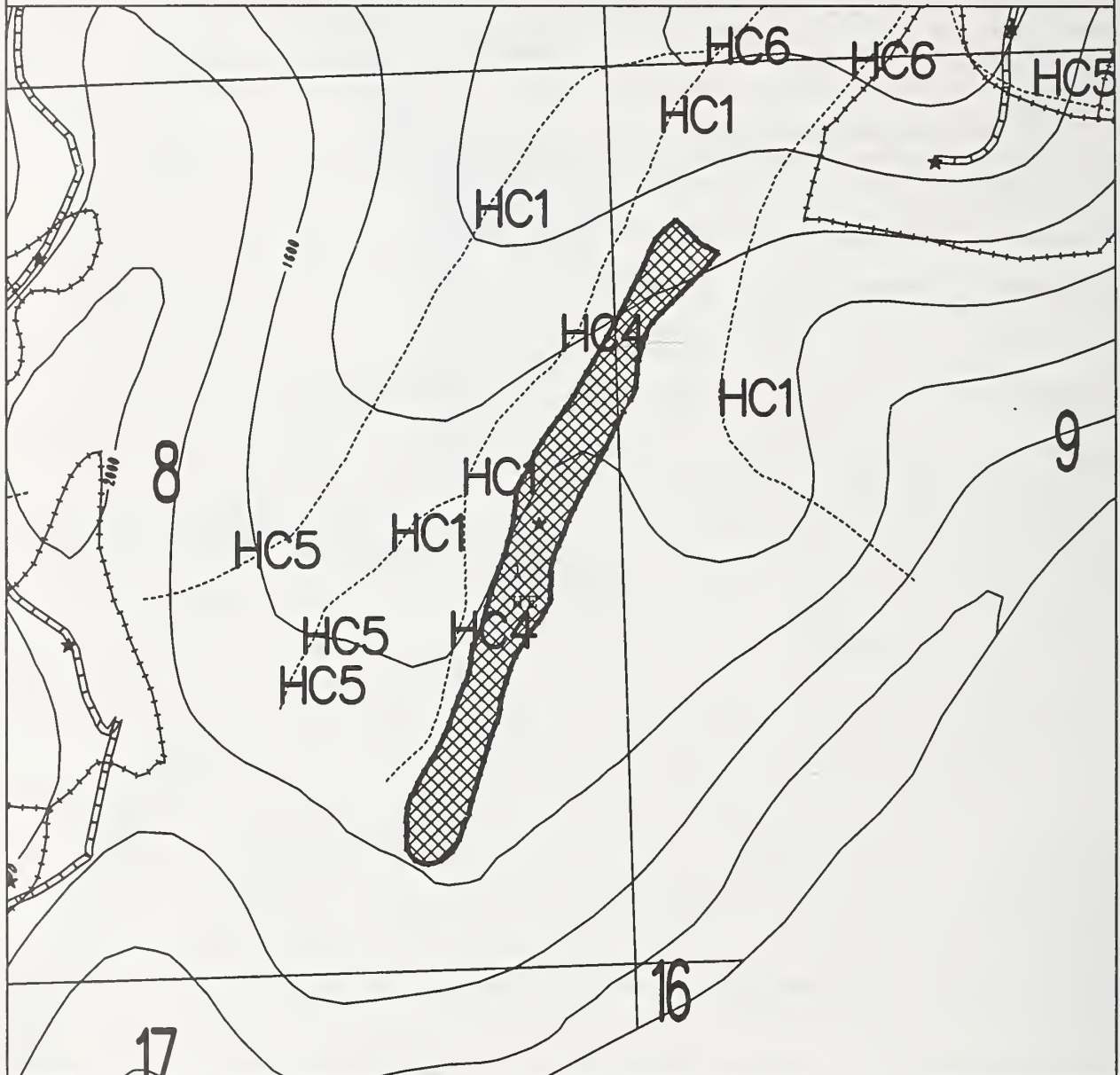
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8036

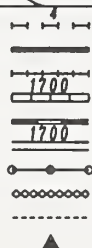
PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 1108 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8038</u>	No. Settings <u>6</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>134</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>4021</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 92 acres VC5 0 acres VC6 42 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 9 acres 1200-1500 ft. 27 acres over 1500 ft. 98 acres
Mass movement index: Low 68 acres Medium 0 acres High 66 acres Very High 0 acres
Cedar 0 Hemlock 90 Mixed 43 Percent Seen 31 Percent Unseen 69 Aspect North

SOILS

This unit has 134 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 30 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 73 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 1.29 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8038

PLANNED HARVEST UNIT MAP

ACRES: 134

VOLUME: 4021

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWS

PHOTO NUM.: 1179-61

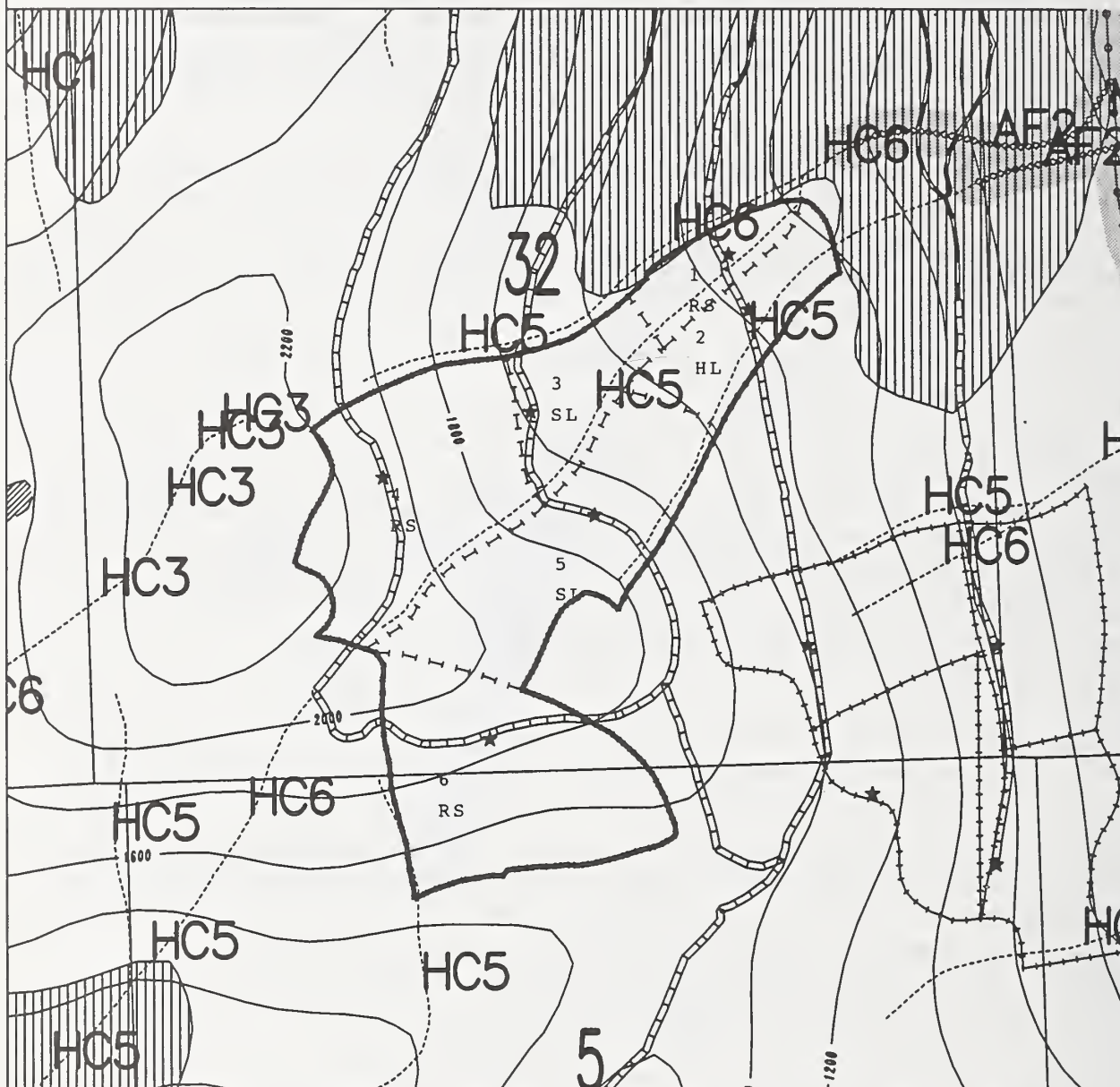
LANDNET INFO

TOWNSHIP

71S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8039</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>29</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>790</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 10 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 5 acres over 1500 ft. 24 acres
Mass movement index: Low 28 acres Medium 0 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 27 Mixed 0 Percent Seen 97 Percent Unseen 3 Aspect North

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8039

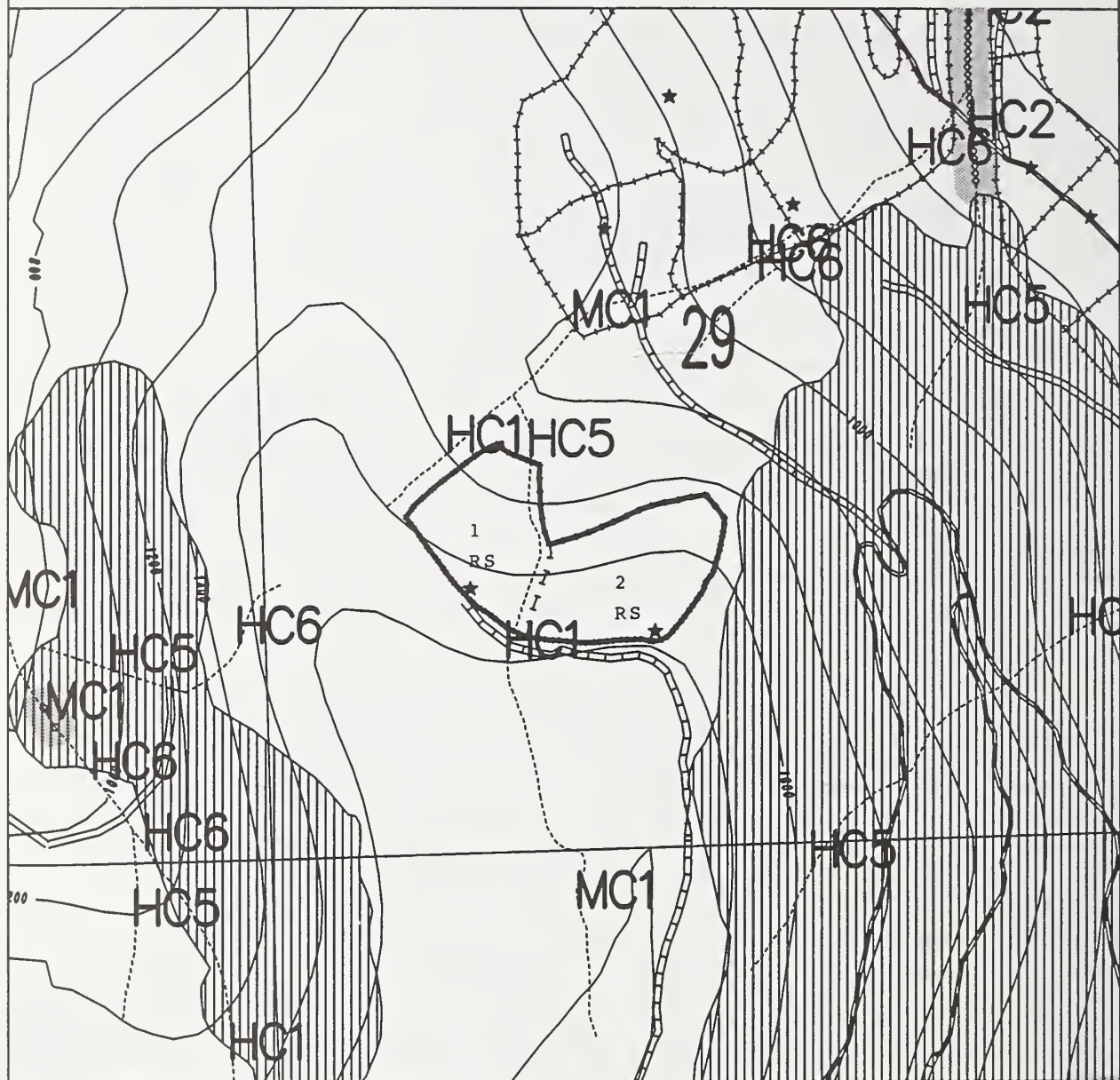
PLANNED HARVEST UNIT MAP

ACRES: 29VOLUME: 790 MBPQUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-62

LANDNET INFO TOWNSHIP

71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8040</u>	No. Settings <u>7</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>103</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3520</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 65 acres VC6 33 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 57 acres 800-1200 ft. 33 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 67 acres Medium 0 acres High 36 acres Very High 0 acres
Cedar 0 Hemlock 98 Mixed 0 Percent Seen 99 Percent Unseen 1 Aspect East

SOILS

This unit has 103 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 27 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 35 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.19 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

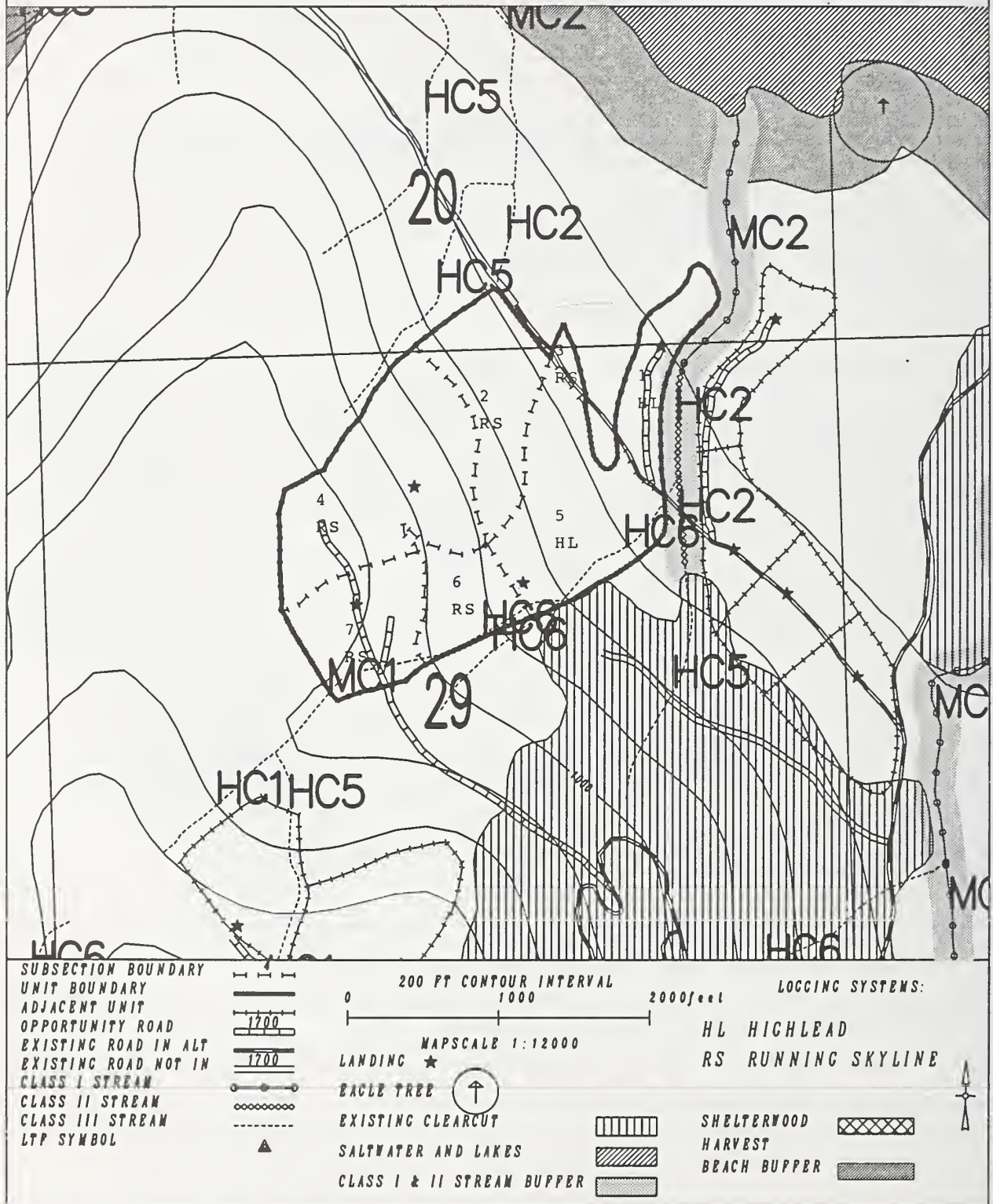
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8040

PLANNED HARVEST UNIT MAP

ACRES: 103 VOLUME: 3520 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN/NWS
 PHOTO NUM.: 1179-63 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8041</u>	No. Settings <u>4</u>	Alternatives considered <u>2 4 5</u>	VQO <u>M</u>
Planned acres <u>44</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1381</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 44 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 44 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 27 acres Medium 16 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 4 Percent Seen 41 Percent Unseen 59 Aspect East

SOILS

This unit has 43 acres that may require partial or full suspension (BMP 13.9)
This unit contains 37 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 44 VOLUME: 1381 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN/NWS
 PHOTO NUM.: 1179-62 LANDNET INFO TOWNSHIP 71S RANGE 90E

The geological map displays several units and features:

- Geological Units:** HC5, HC2, MC2, ES4, MM1, FP5, MC2P3, PA2, MC1, HC6, and HC1.
- Topographic Features:** Contour lines labeled 20, 29, and 28.
- Structural Features:** Fault lines labeled HL (Hanging Wall) and FW (Foot Wall).
- Other Features:** A shaded area in the upper right, a star symbol, and a north arrow.

MAPSCALE 1:12000

HL HICHLEAD

SHELTERWOOD
HARVEST
BEACH BUPPER

July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8044</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>5</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>33</u>		Quad <u>KTNC6NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>920</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-50</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 18 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 33 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 10 acres Medium 23 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 30 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 33 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

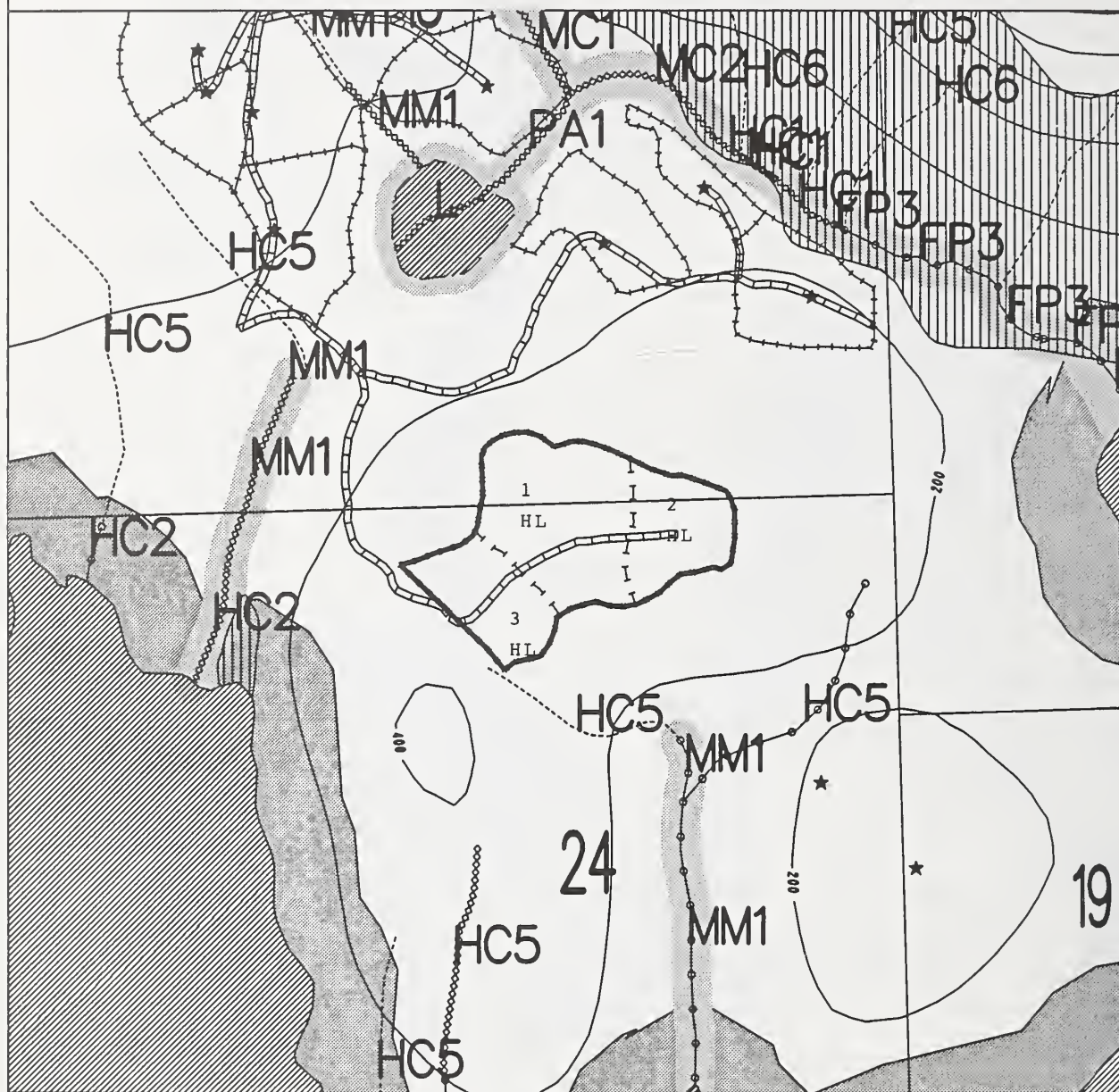
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8044

PLANNED HARVEST UNIT MAP

ACRES: 33 VOLUME: 920 MBF QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-50 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8045</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>10</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>250</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-49</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 10 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 10 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 10 acres that may require partial or full suspension (BMP 13.9)
This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

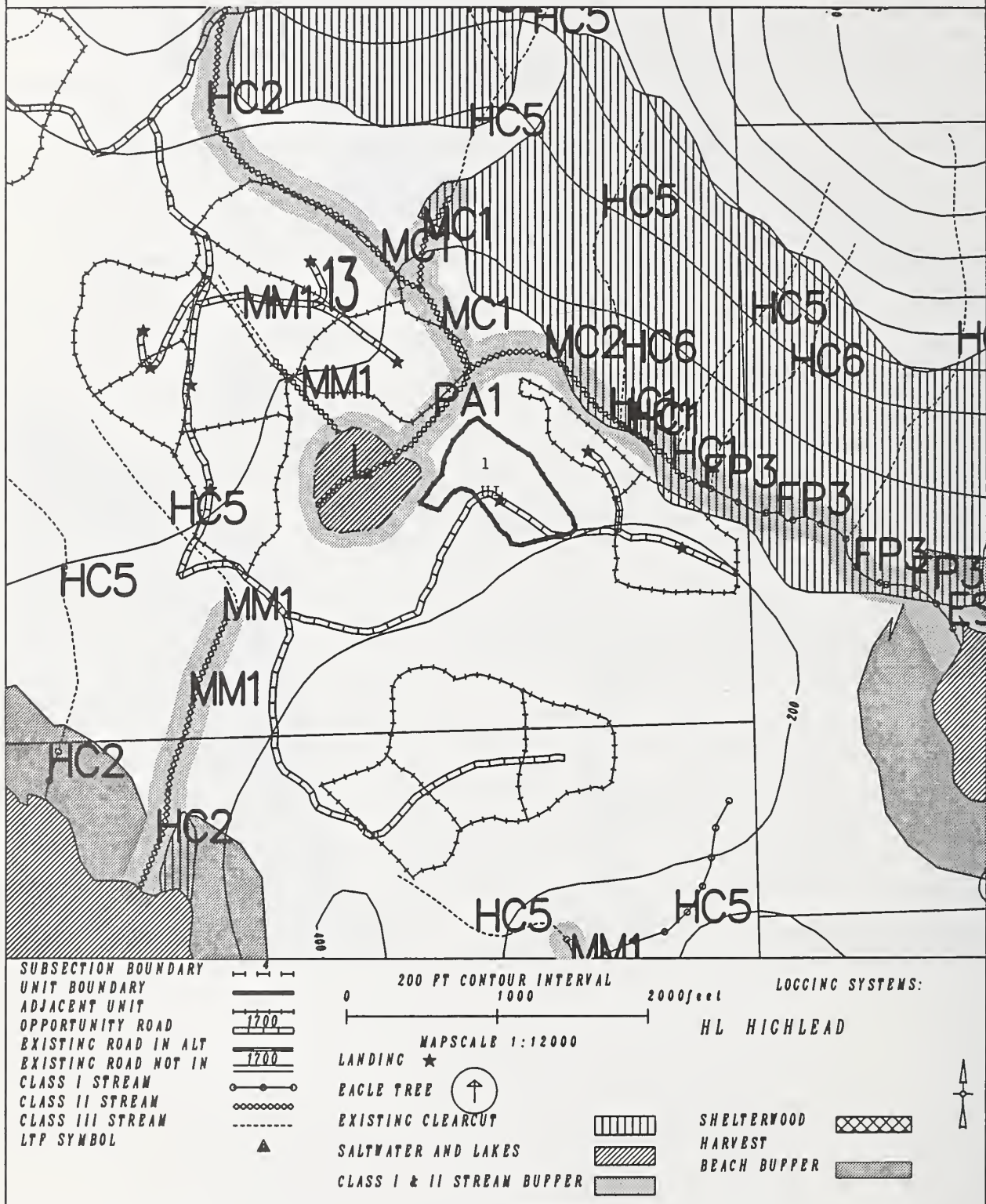
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8045

PLANNED HARVEST UNIT MAP

ACRES: 10 VOLUME: 250 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-49 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8046</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>37</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>924</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 37 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 10 acres Medium 27 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 10 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit contains 35 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

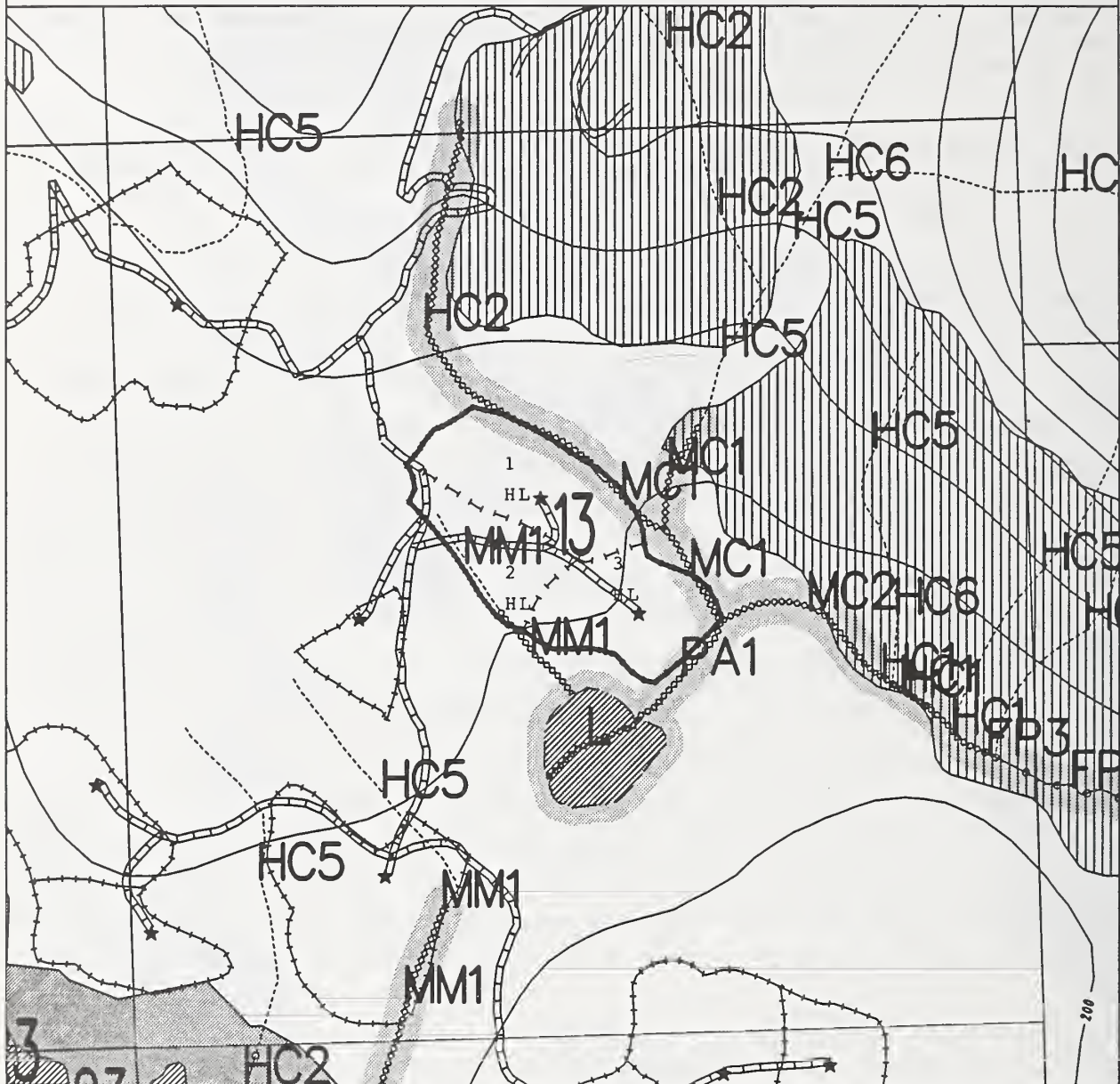
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8046

PLANNED HARVEST UNIT MAP

ACRES: 37 VOLUME: 924 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-9 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN ALT
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8047</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>15</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>375</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-8</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 9 acres Medium 6 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

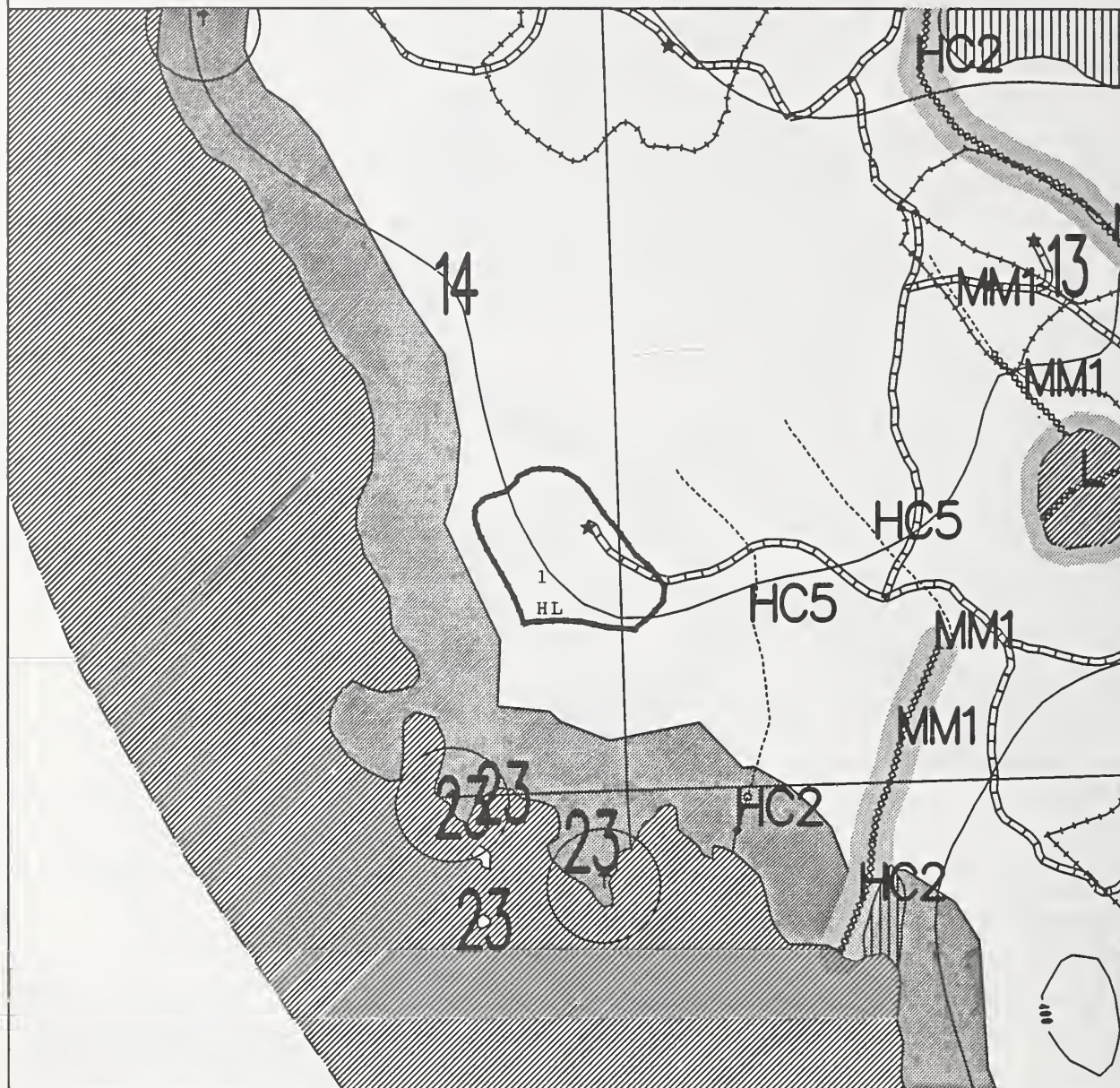
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8047

PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 375 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-8 LANDNET INFO TOWNSHIP 71S RANGE R9E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8048</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>M</u>
Planned acres <u>37</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>924</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 37 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 30 acres Medium 7 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 35 Mixed 0 Percent Seen 28 Percent Unseen 72 Aspect West

SOILS

This unit has 37 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 36 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

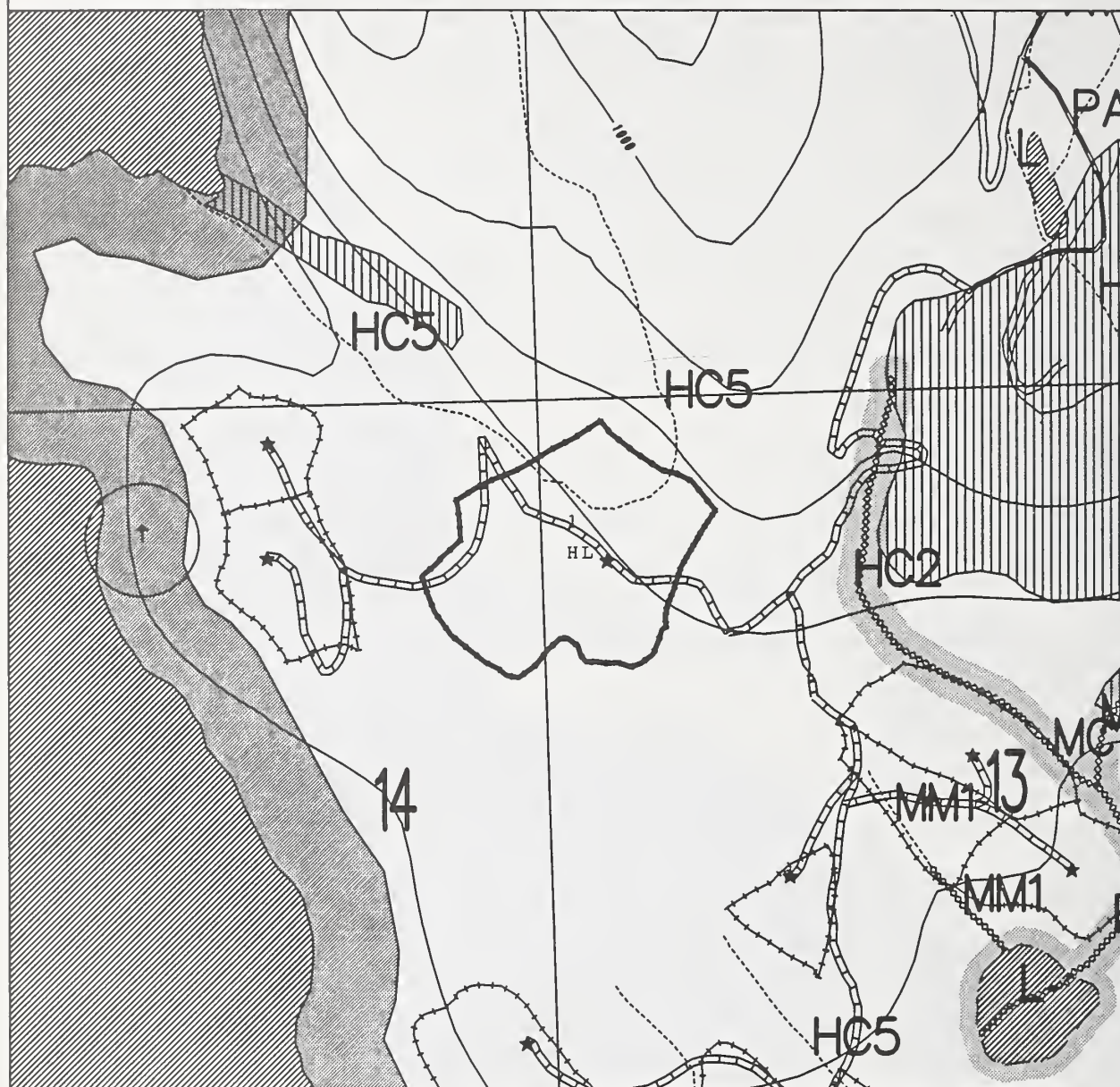
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8048

PLANNED HARVEST UNIT MAP

ACRES: 37 VOLUME: 924 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE R9E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000
 LANDING ★
 EAGLE TREE (upward arrow symbol)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8049</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>12</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>299</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 12 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 12 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 2 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 12 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.15 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

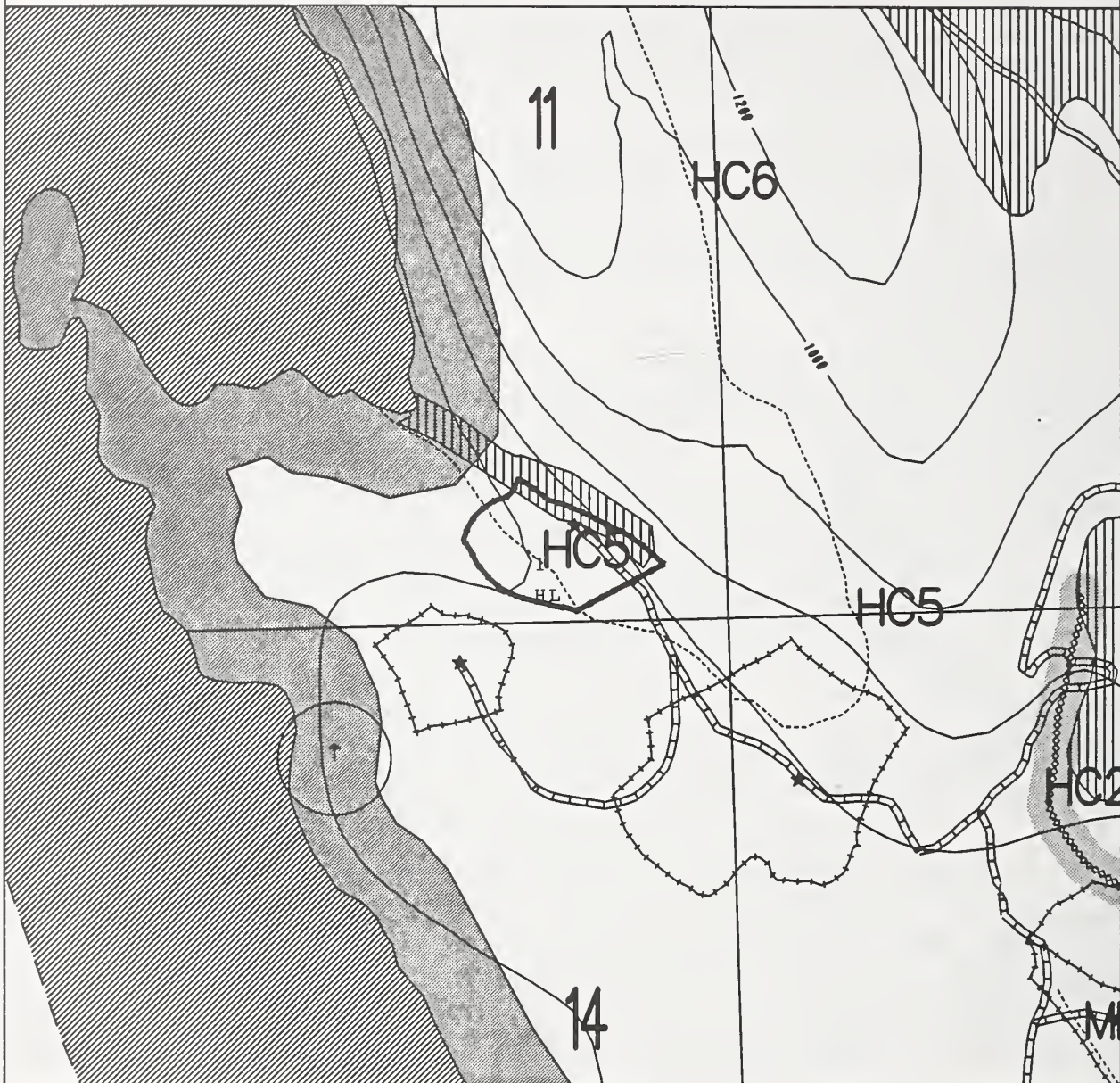
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8049

PLANNED HARVEST UNIT MAP

ACRES: 12 VOLUME: 299 MBF QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



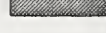
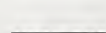
LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8050</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>9</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>224</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 9 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 3 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 0 Percent Seen 11 Percent Unseen 89 Aspect South

SOILS

This unit has 9 acres that may require partial or full suspension (BMP 13.9)
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

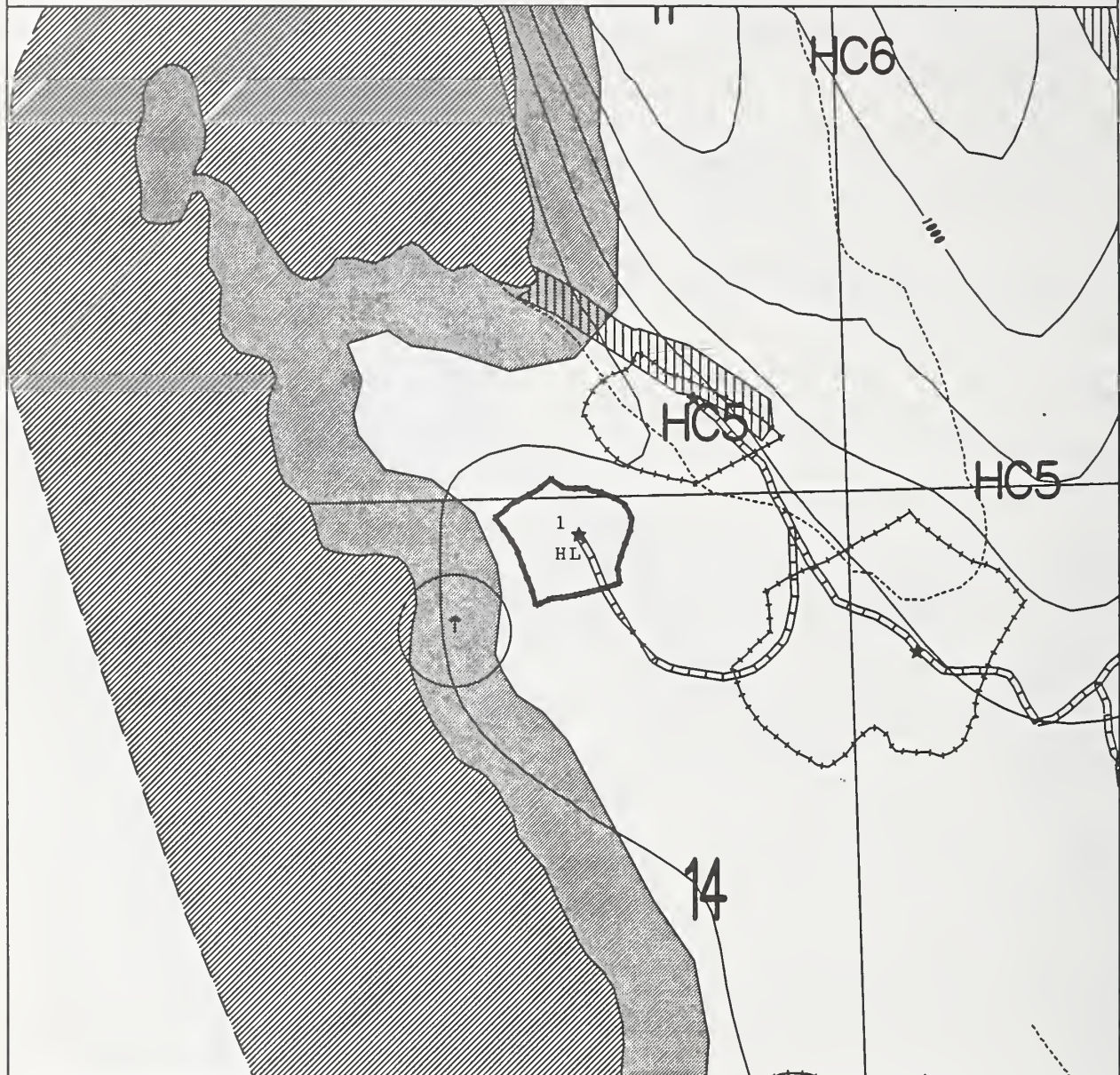
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8050

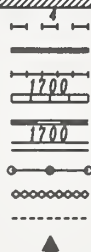
PLANNED HARVEST UNIT MAP

ACRES: 9 VOLUME: 224 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INPO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8051</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	<u>6</u>	VQO <u>MM</u>
Planned acres <u>47</u>		Quad <u>KTNC6NEN</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1510</u>		Mgmt Area <u>K32</u>	VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>SL</u>		WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-48</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 0 acres VC6 21 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 27 acres over 1500 ft. 20 acres
Mass movement index: Low 0 acres Medium 0 acres High 0 acres Very High 47 acres
Cedar 0 Hemlock 23 Mixed 16 Percent Seen 17 Percent Unseen 83 Aspect West

SOILS

This unit has 47 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 45 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

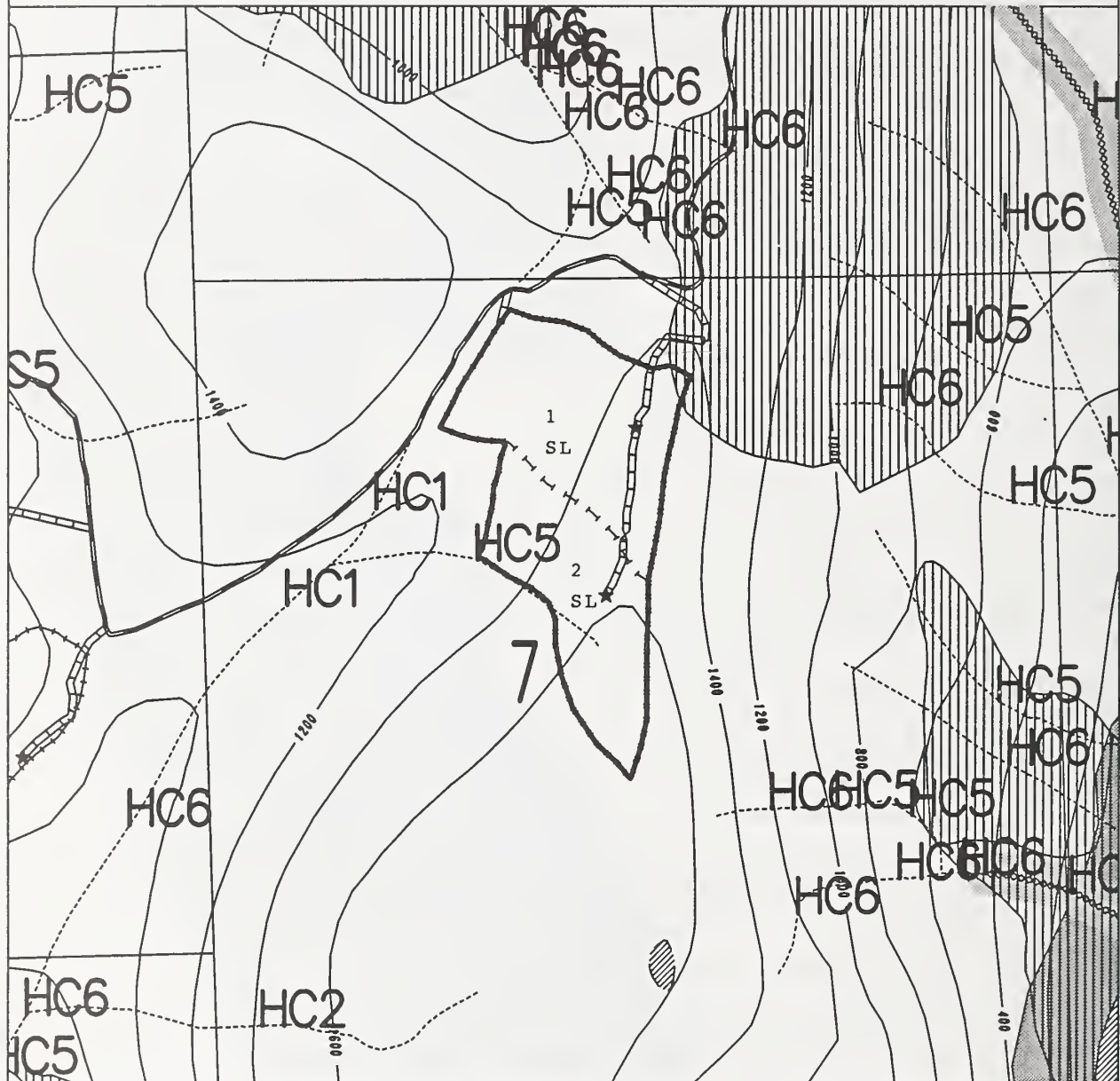
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8051

PLANNED HARVEST UNIT MAP

ACRES: 47 VOLUME: 1510 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-48 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8052</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>19</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>616</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 17 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 4 acres 1200-1500 ft. 12 acres over 1500 ft. 3 acres
Mass movement index: Low 1 acres Medium 0 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 19 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

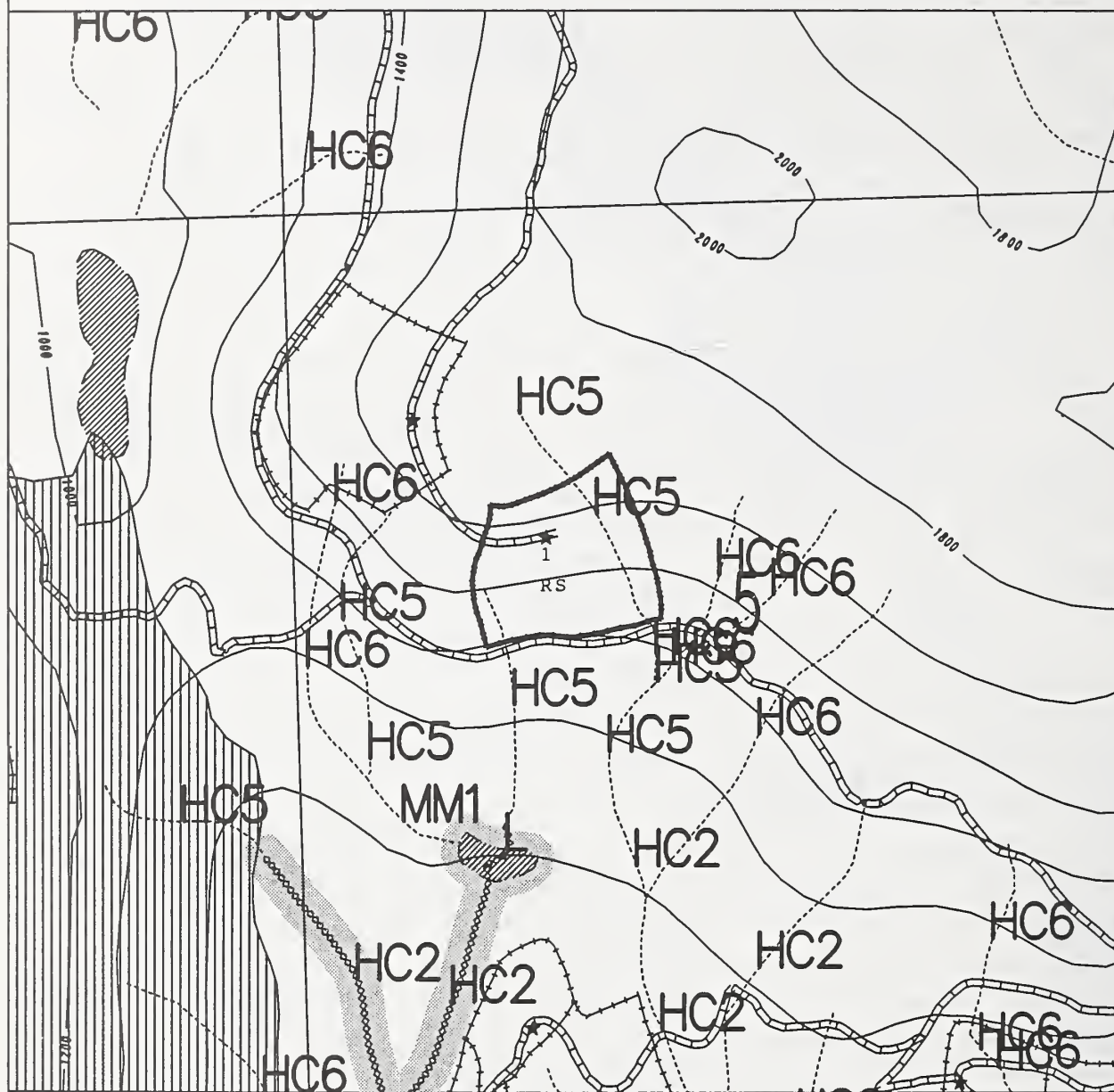
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8052

PLANNED HARVEST UNIT MAP

ACRES: 19 VOLUME: 616 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8053</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>90</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3482</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMM</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-67</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 22 acres VC6 68 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 90 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 18 acres Medium 51 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 69 Mixed 21 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 90 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.10 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

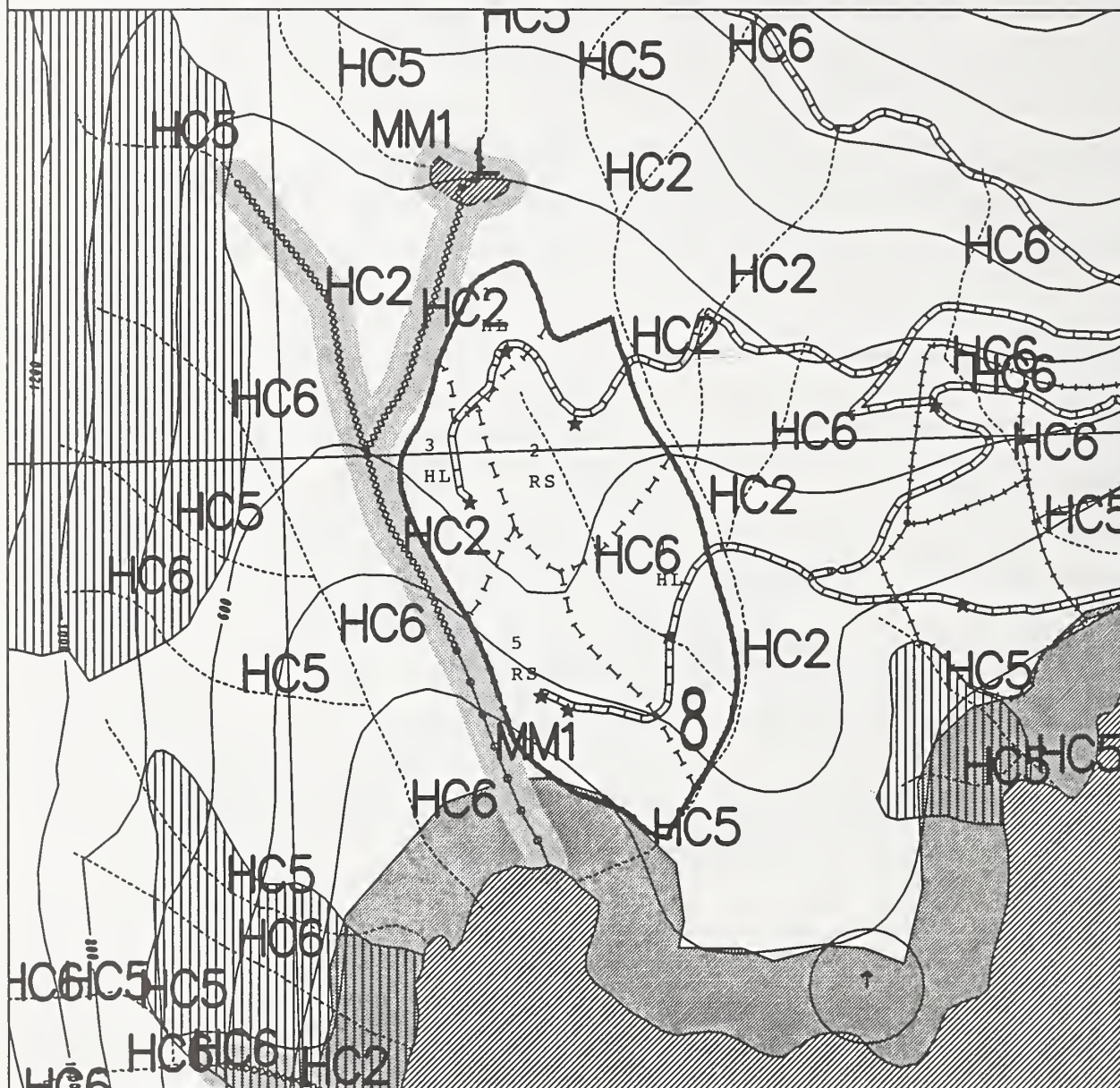
VCU: 7380

UNIT NUMBER: 8053

PLANNED HARVEST UNIT MAP

ACRES: 90 VOLUME: 3482 MBP QUAD(s): KTN C5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-67 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8054</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>62</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2303</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 25 acres VC6 37 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 62 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 40 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 36 Mixed 25 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 61 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.41 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

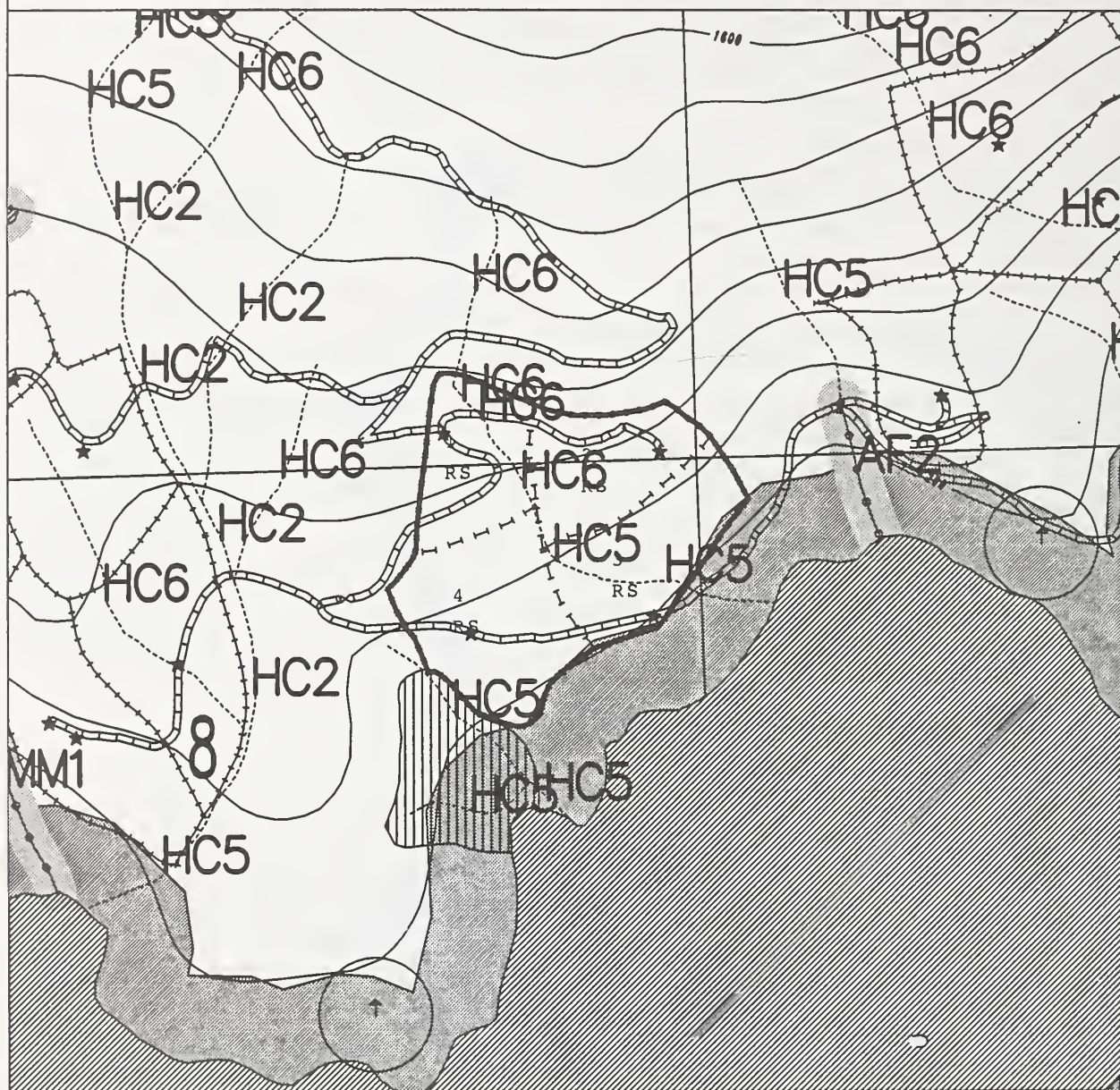
VCU: 7380

UNIT NUMBER: 8054

PLANNED HARVEST UNIT MAP

ACRES: 62 VOLUME: 2303 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHelterWOOD

HARVEST

BEACH BUPPER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8055</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>43</u>		Quad <u>KTNC5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1208</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>MHU</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 22 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 0 acres 1200-1500 ft. 17 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 16 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 34 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 43 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 20 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

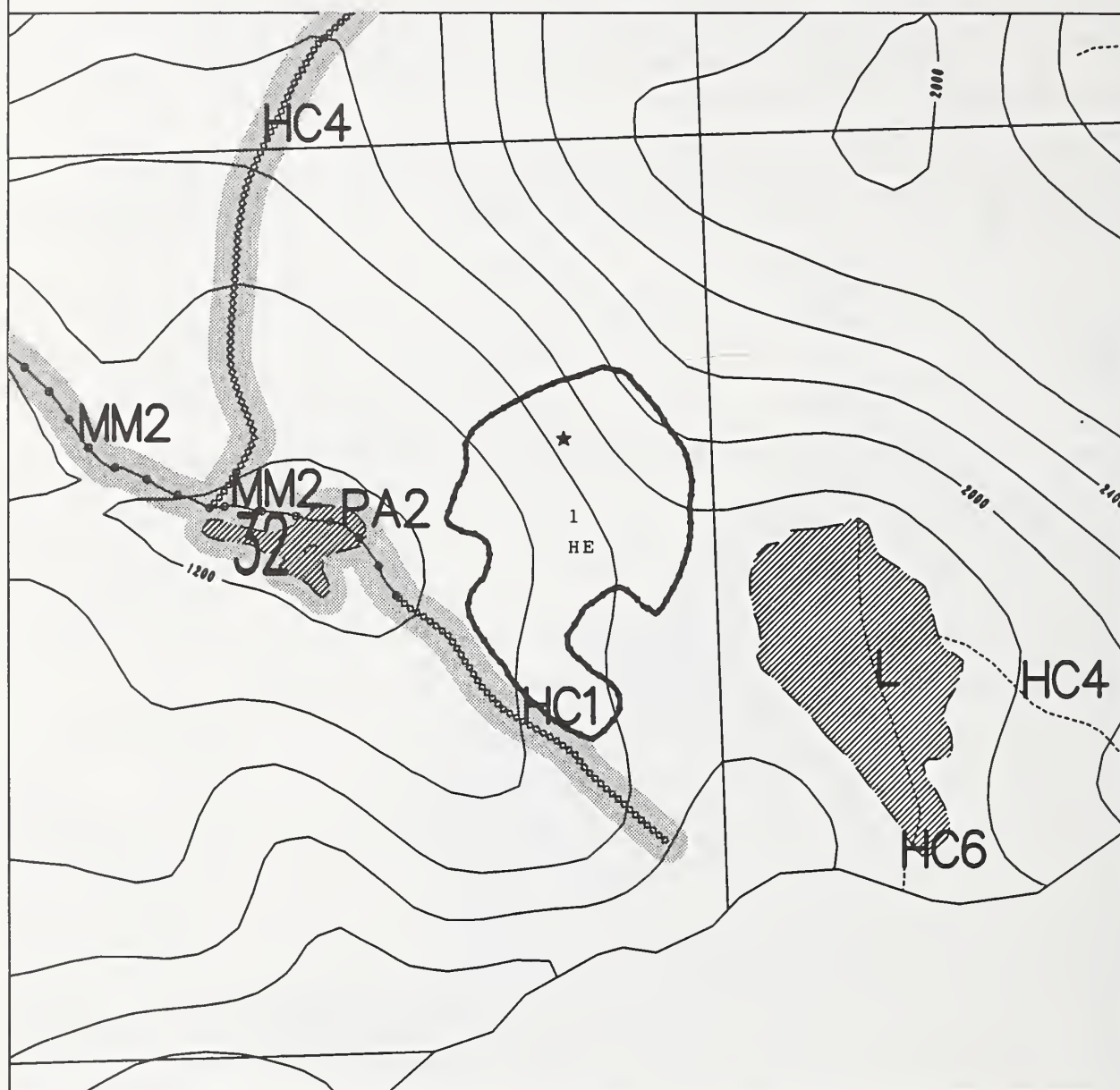
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8055

PLANNED HARVEST UNIT MAP

ACRES: 43 VOLUME: 1208 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NES
 PHOTO NUM.: 1279-17 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8056</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>64</u>		Quad <u>KTNC6NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1598</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 64 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 64 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 35 acres Medium 20 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 62 Mixed 0 Percent Seen 56 Percent Unseen 44 Aspect West

SOILS

This unit has 64 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 53 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

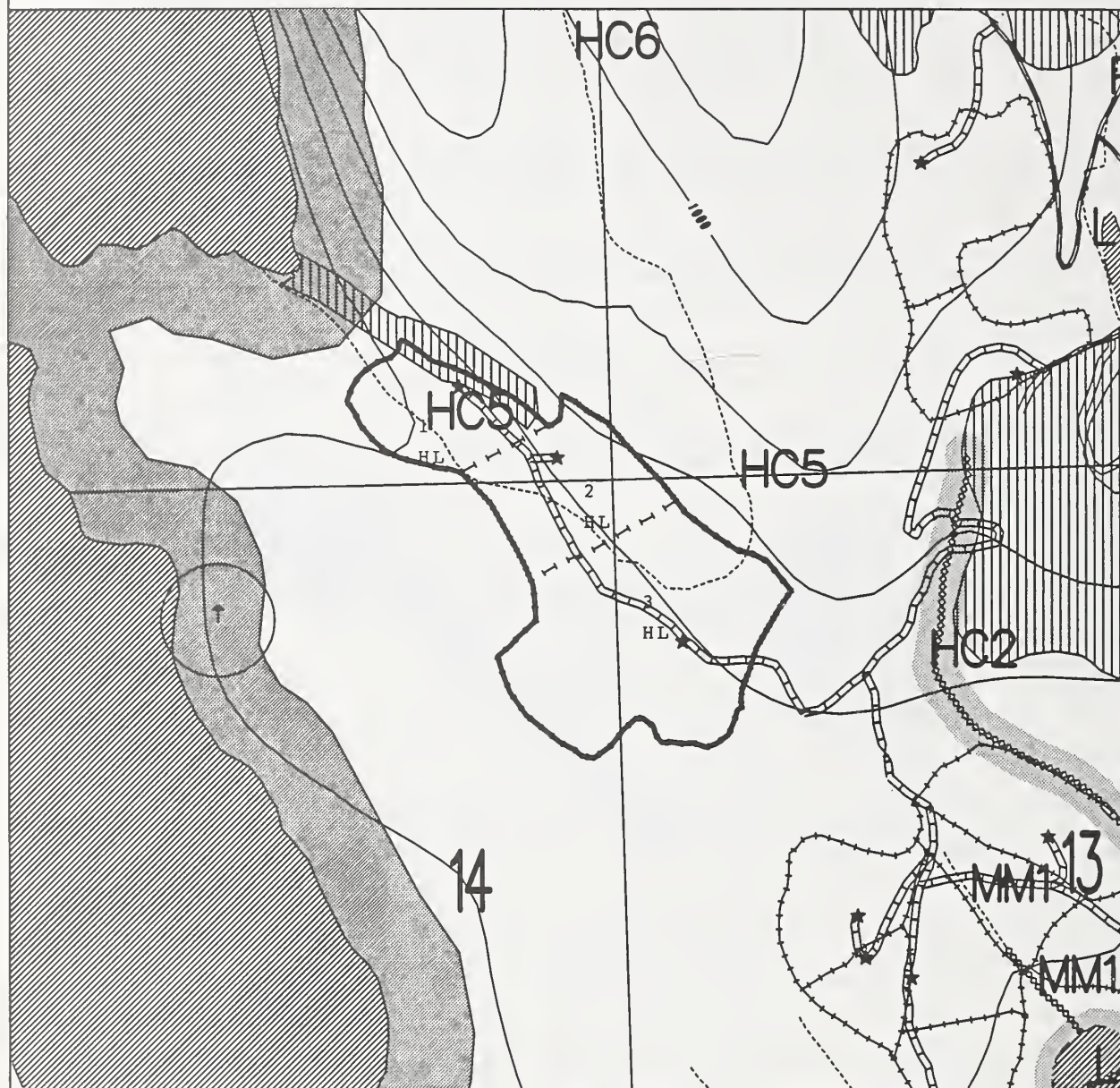
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8056

PLANNED HARVEST UNIT MAP

ACRES: 64 VOLUME: 1598 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8057</u>	No. Settings <u>7</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>76</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1898</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 76 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 76 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 22 acres Medium 54 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 61 Mixed 10 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit contains 74 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

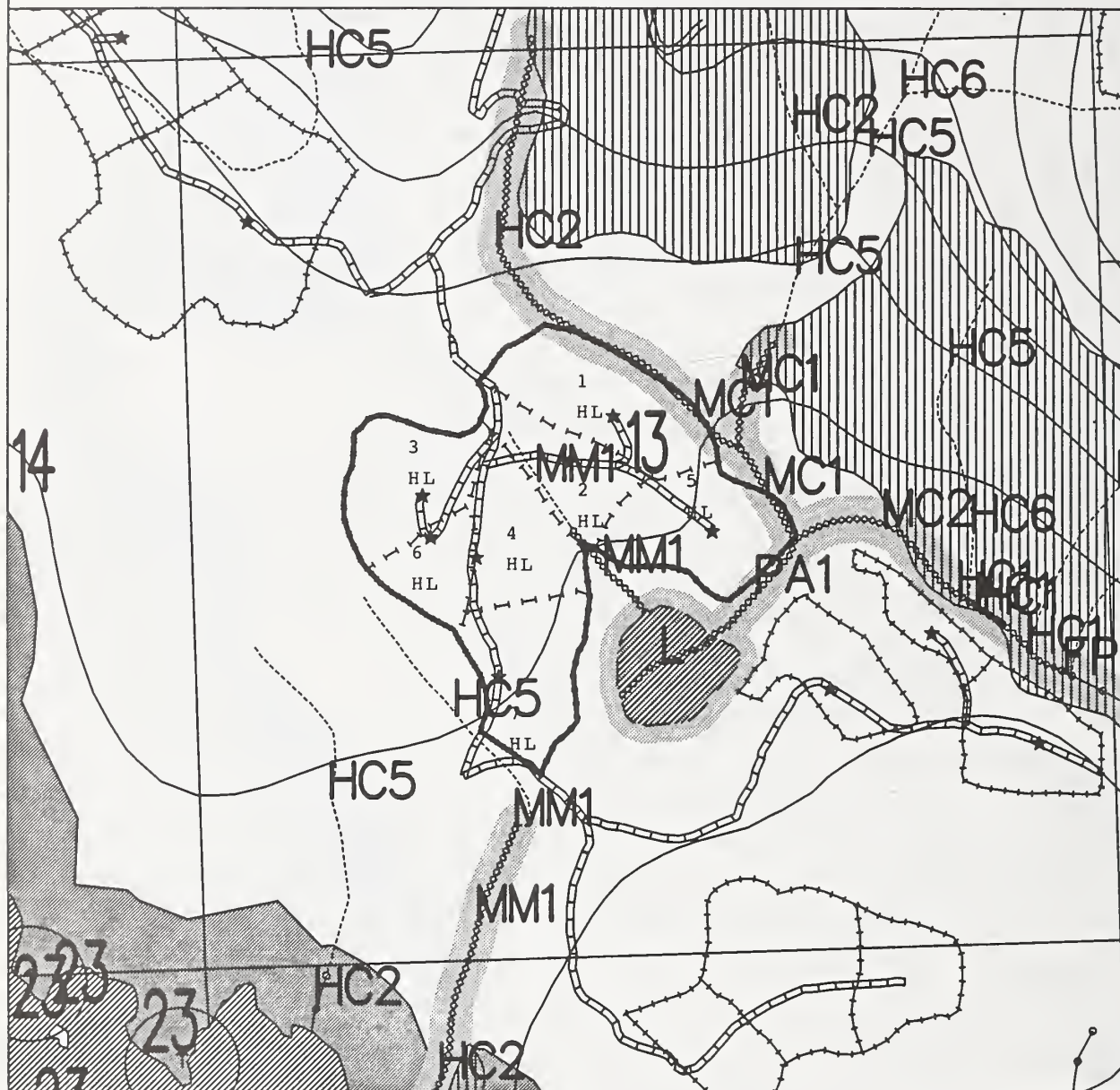
VCU: 7380

UNIT NUMBER: 8057

PLANNED HARVEST UNIT MAP

ACRES: 76 VOLUME: 1898 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-9 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8058</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>375</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-49</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 12 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

This unit adjacent to other ownership. Boundary establishment required prior to layout.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

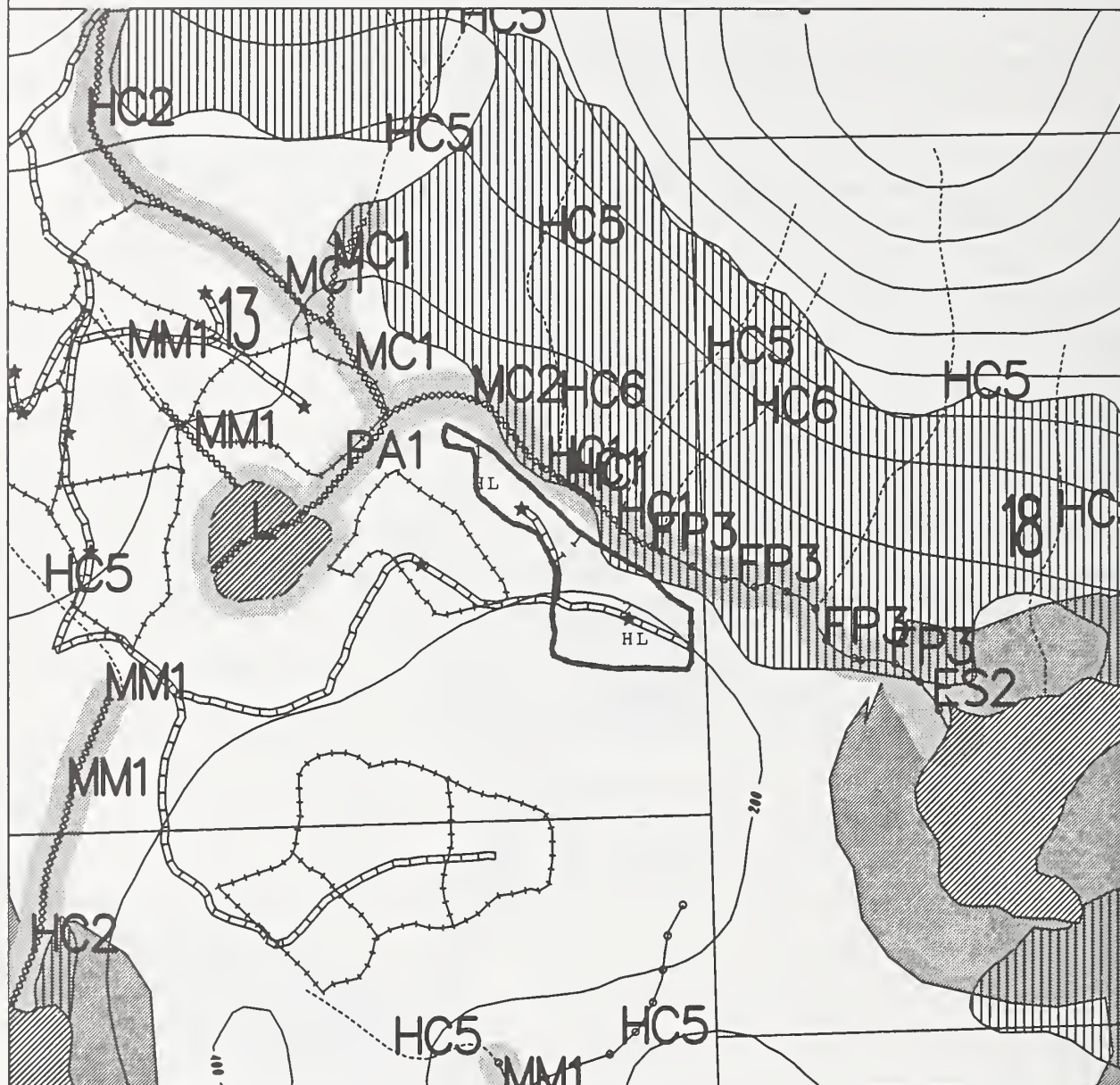
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8058

PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 375 MBF QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-49 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8060</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>36</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1130</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-48</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 36 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 21 acres over 1500 ft. 15 acres
Mass movement index: Low 3 acres Medium 0 acres High 33 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 32 Percent Seen 50 Percent Unseen 50 Aspect North

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

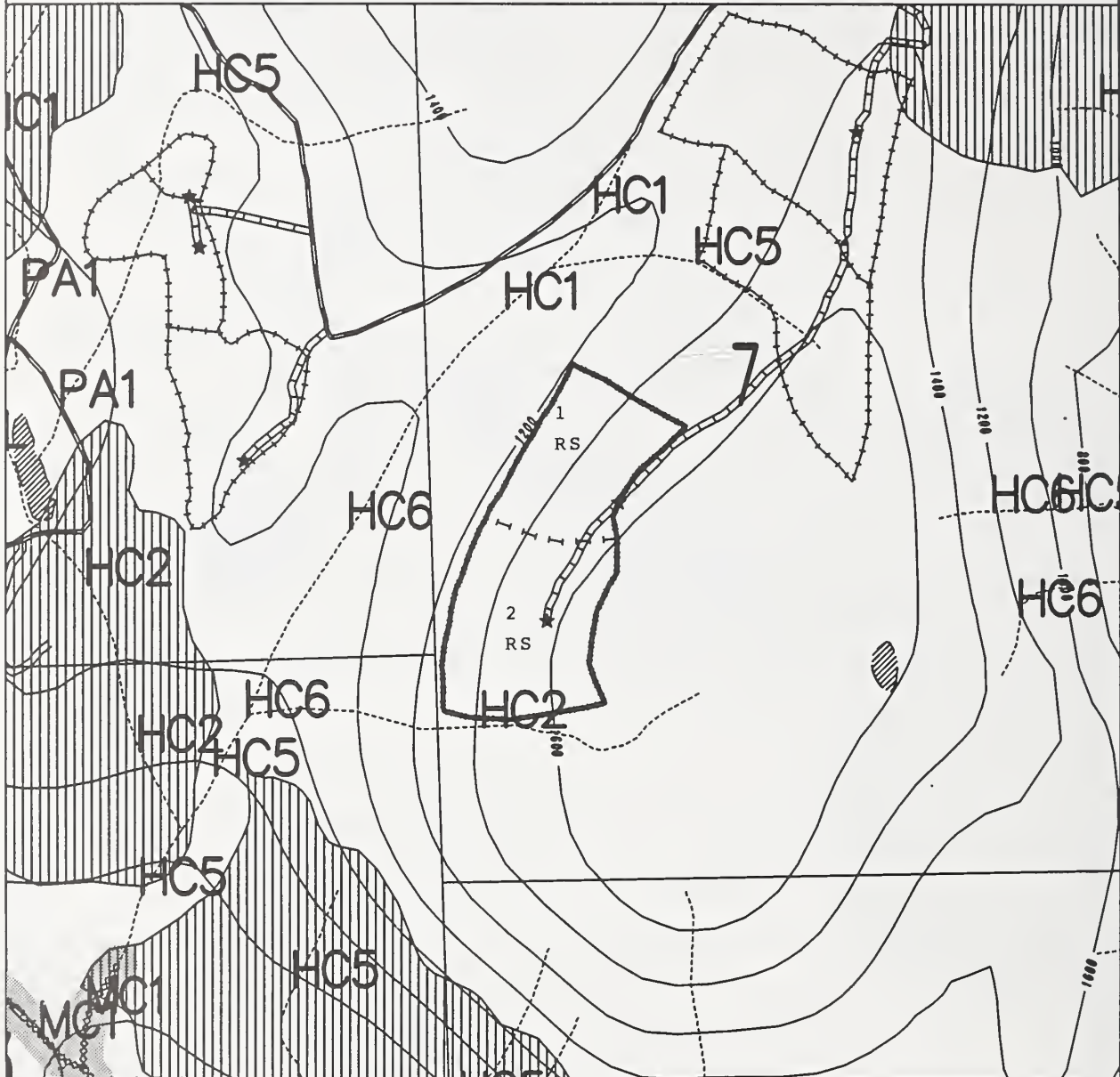
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8060

PLANNED HARVEST UNIT MAP

ACRES: 36 VOLUME: 1130 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-48 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8061</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>26</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>761</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-48</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 0 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 20 acres over 1500 ft. 6 acres
Mass movement index: Low 0 acres Medium 0 acres High 0 acres Very High 26 acres
Cedar 0 Hemlock 18 Mixed 6 Percent Seen 30 Percent Unseen 70 Aspect West

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 4 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

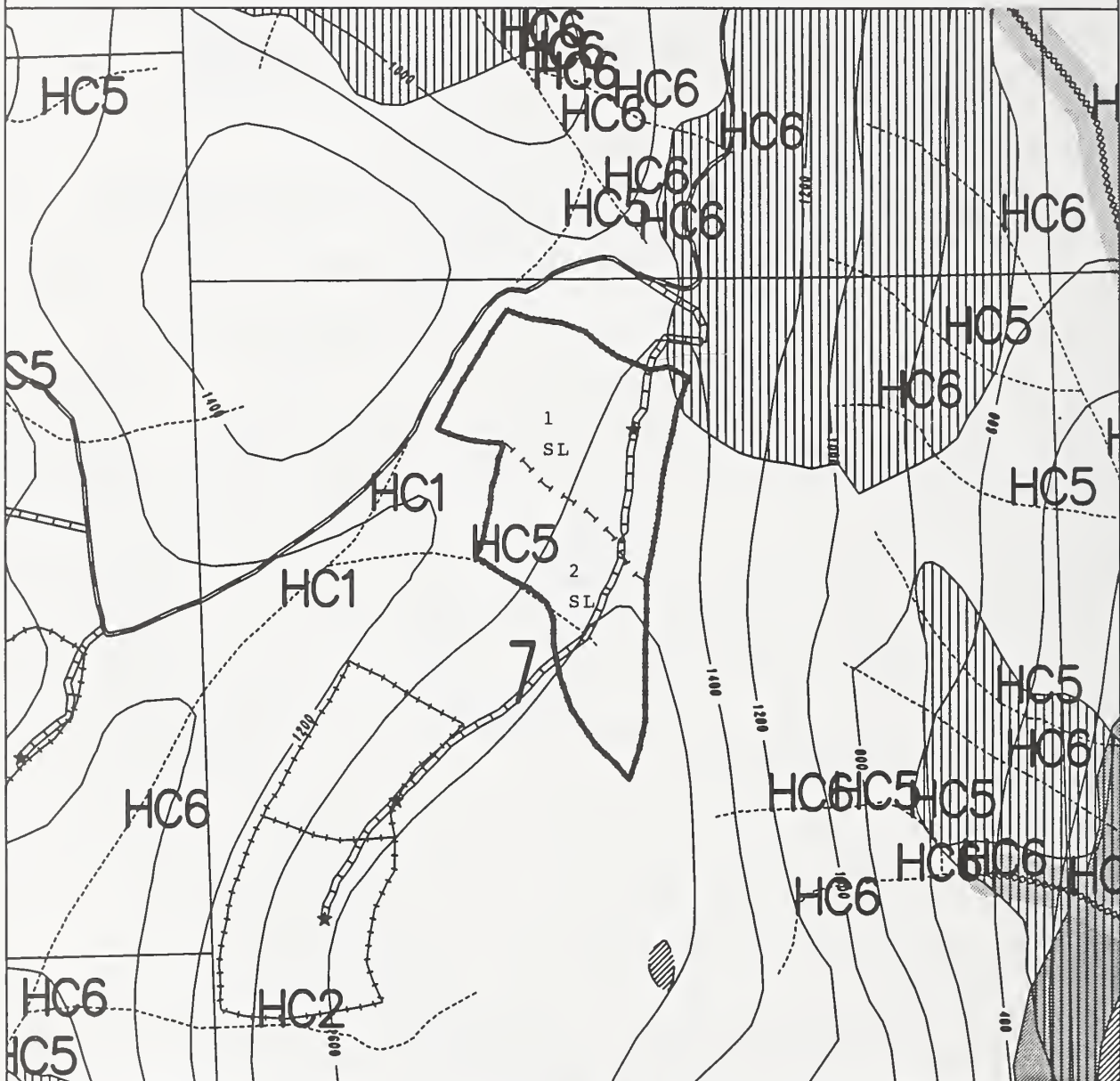
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8061

PLANNED HARVEST UNIT MAP

ACRES: 47 VOLUME: 1510 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-48 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8062</u>	No. Settings <u>7</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>98</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3539</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 50 acres VC6 48 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 83 acres 1200-1500 ft. 4 acres over 1500 ft. 0 acres
Mass movement index: Low 35 acres Medium 2 acres High 61 acres Very High 0 acres
Cedar 0 Hemlock 8 Mixed 90 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 98 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 20 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 50 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

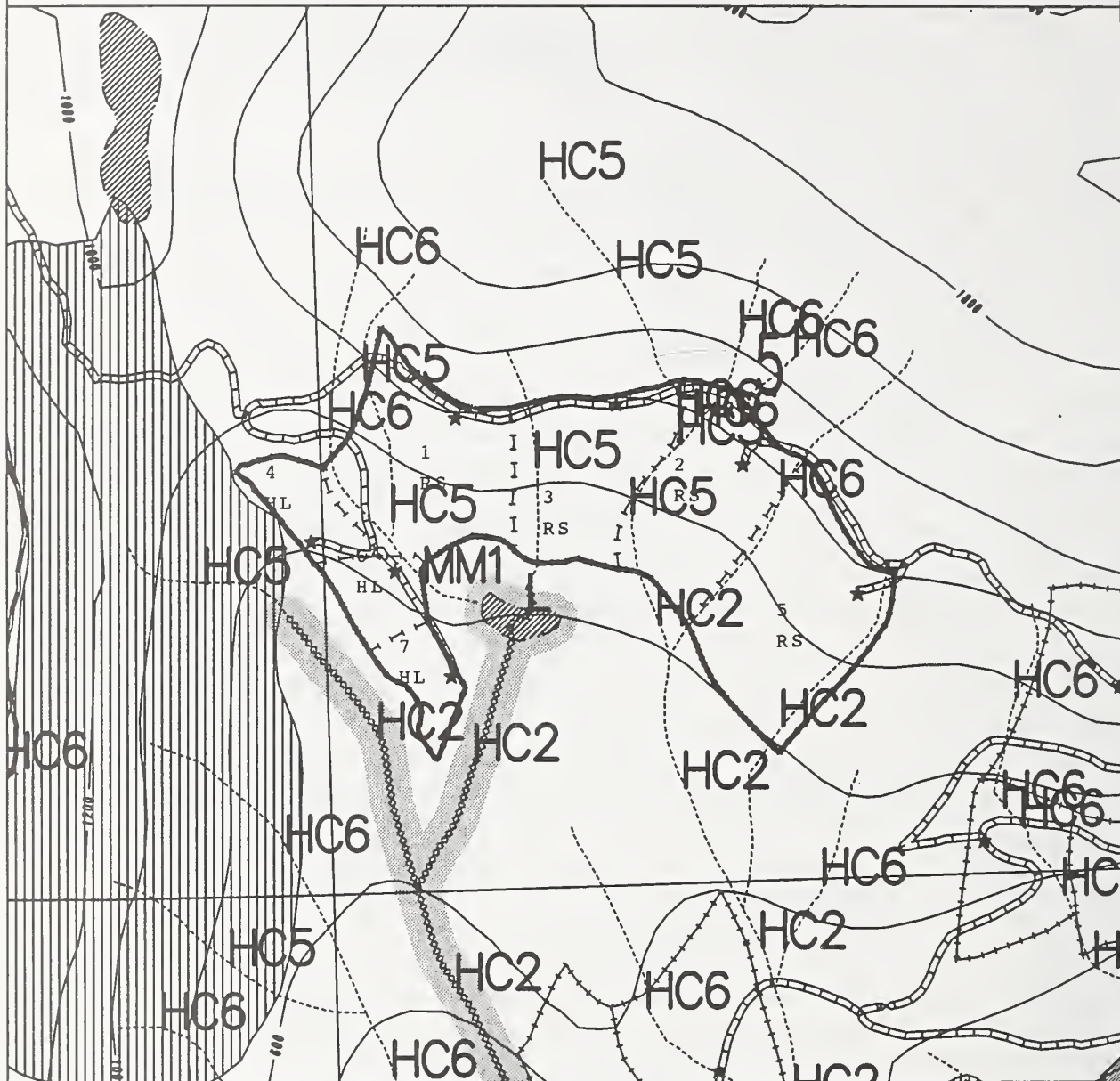
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8062

PLANNED HARVEST UNIT MAP

ACRES: 98 VOLUME: 3539 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8063</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>47</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1929</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-67</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 47 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 47 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 26 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 47 Mixed 0 Percent Seen 100 Percent Unseen 00 Aspect South

SOILS

This unit has 47 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

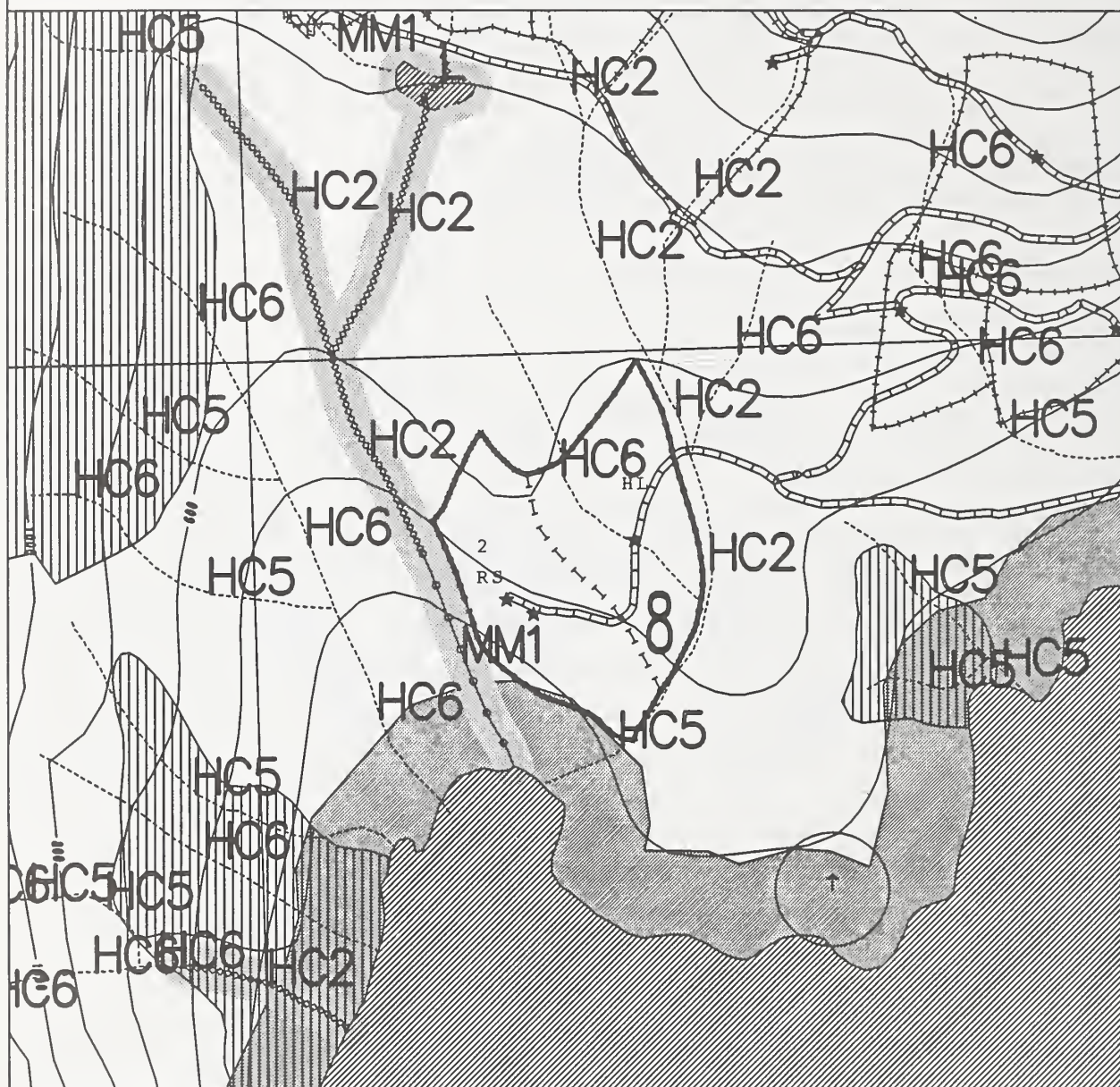
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8063

PLANNED HARVEST UNIT MAP

ACRES: 47 VOLUME: 1929 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-67 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUPPER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 8064 No. Settings 3 Alternatives considered 3 6 VQO M
Planned acres 53 Quad KTNC5NWN Windthrow risk H
Estimated volume (mbf) 1933 Mgmt Area K32 VCU 7380 Plant Series WHS
Logging methods RS WAA 510 Forest type Mixed conifer
Silvicultural system Clearcut 1981 Photo 1179-68

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 25 acres VC6 28 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 20 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 6 acres High 47 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 39 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 53 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 30 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

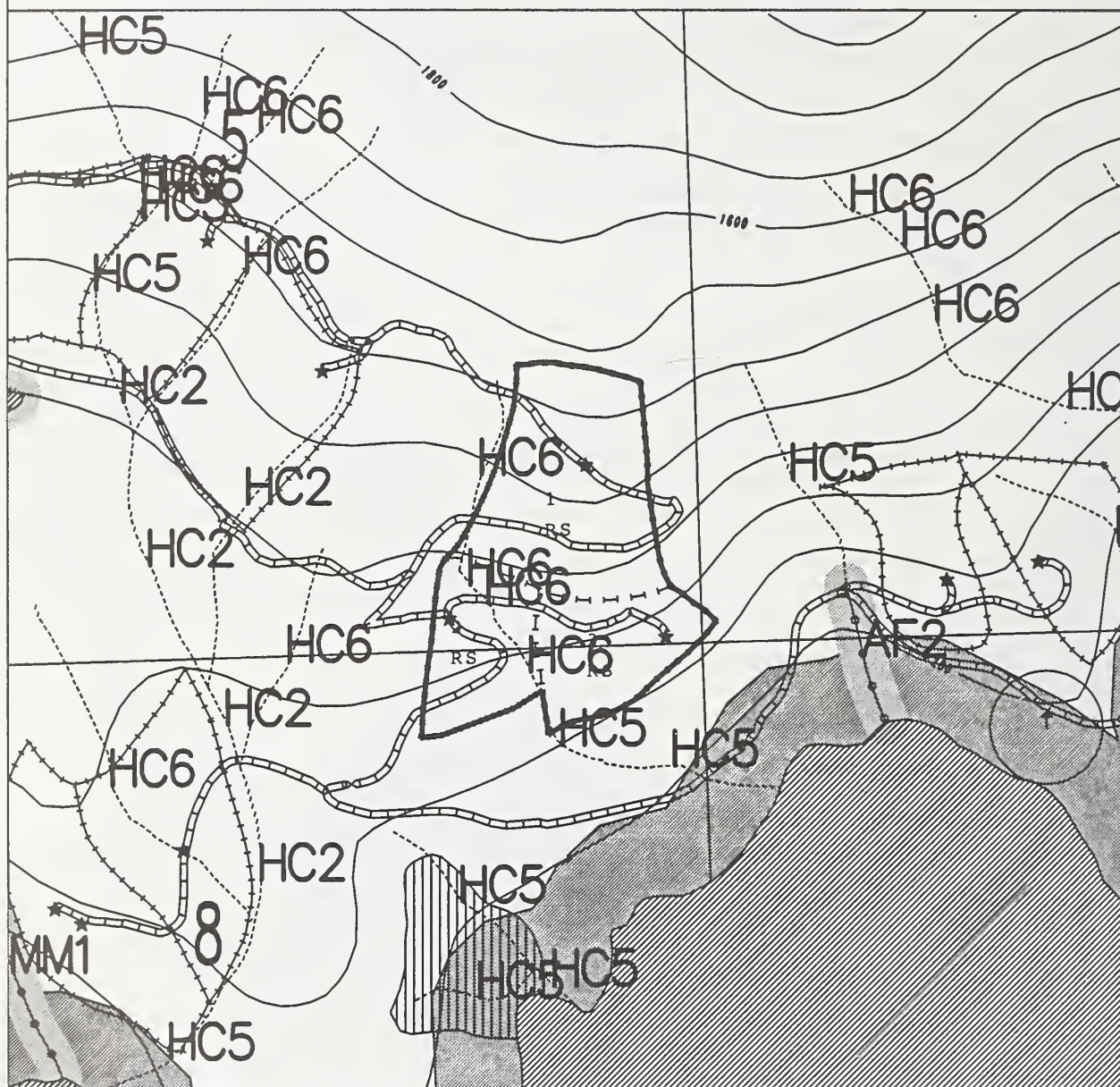
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8064

PLANNED HARVEST UNIT MAP

ACRES: 53 VOLUME: 1933 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INPO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8065</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 6</u>	VQO <u>MM</u>
Planned acres <u>30</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>977</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 18 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 1 acres 1200-1500 ft. 11 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 29 acres Very High 0 acres
Cedar 0 Hemlock 28 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 17 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

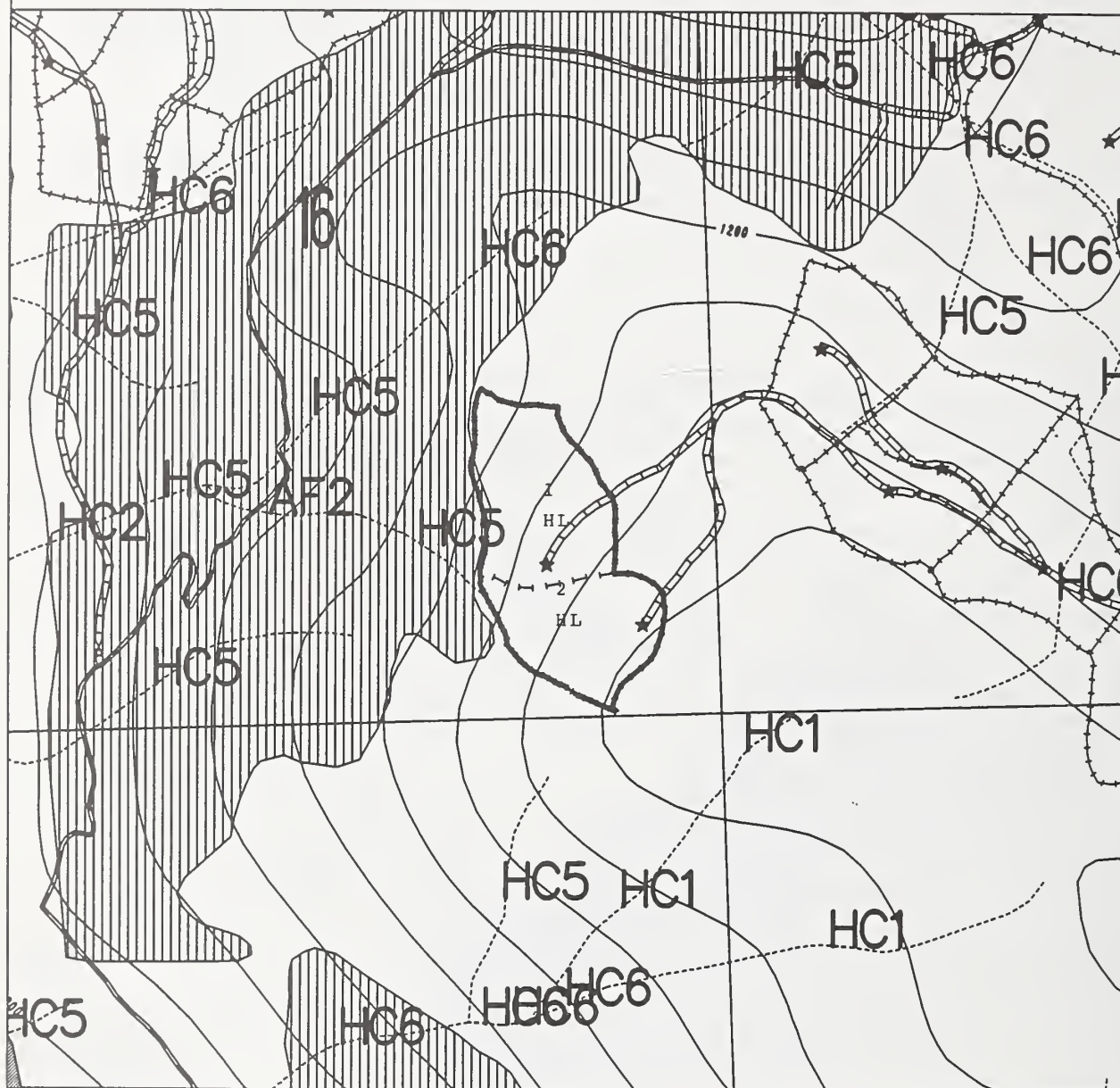
GEOLOGY

There are no geological mitigation measures anticipated for this unit.

PLANNED HARVEST UNIT MAP

ACRES: 30 VOLUME: 977 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
HARVEST
BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8066</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u>	VQO <u>M</u>
Planned acres <u>47</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1474</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 47 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 37 acres 1200-1500 ft. 4 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 37 acres High 10 acres Very High 0 acres
Cedar 0 Hemlock 47 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 47 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 44 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

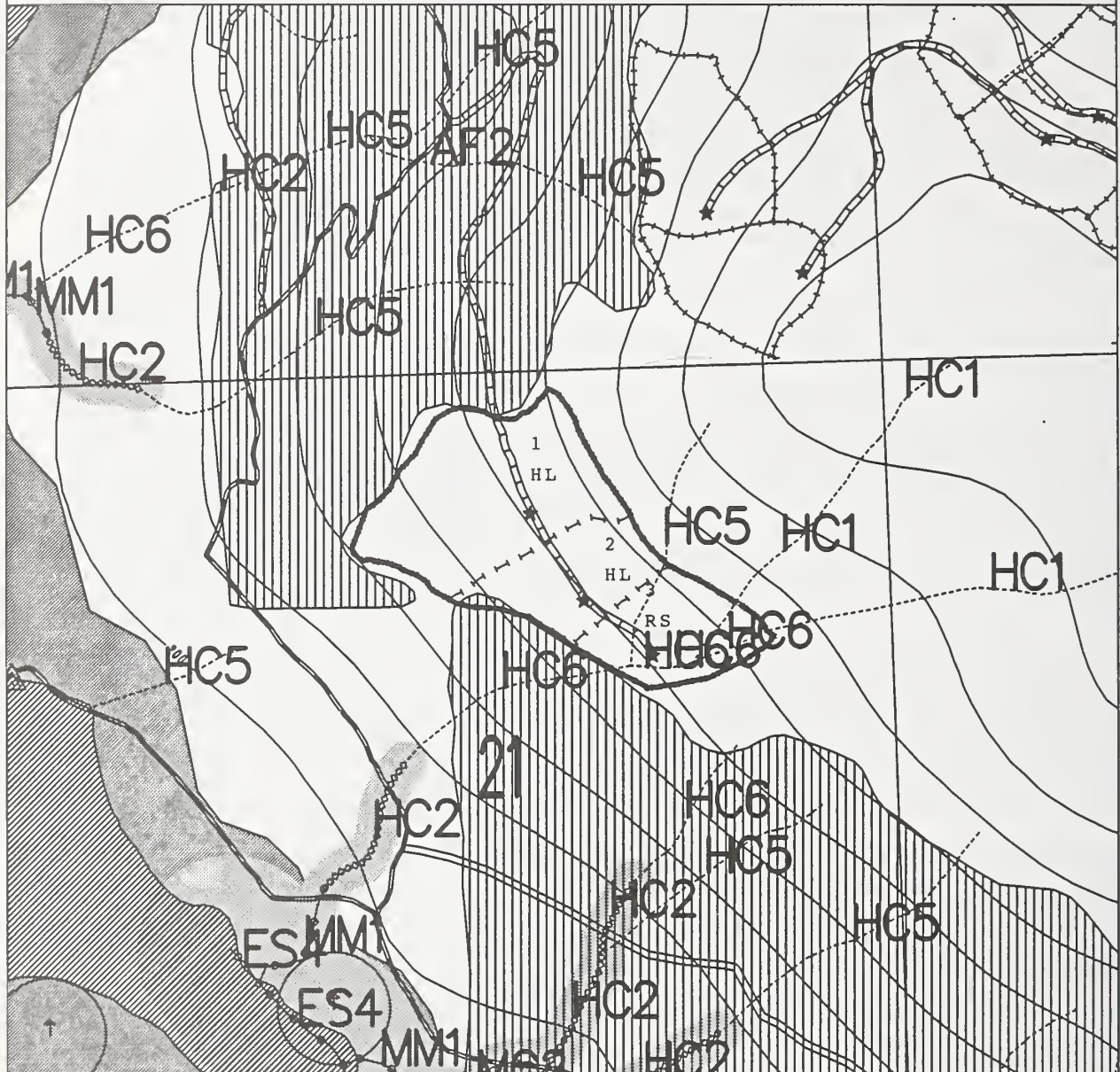
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8066

PLANNED HARVEST UNIT MAP

ACRES: 47 VOLUME: 1474 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8067</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>15</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>420</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 7 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 13 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 12 Mixed 2 Percent Seen 20 Percent Unseen 80 Aspect West

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

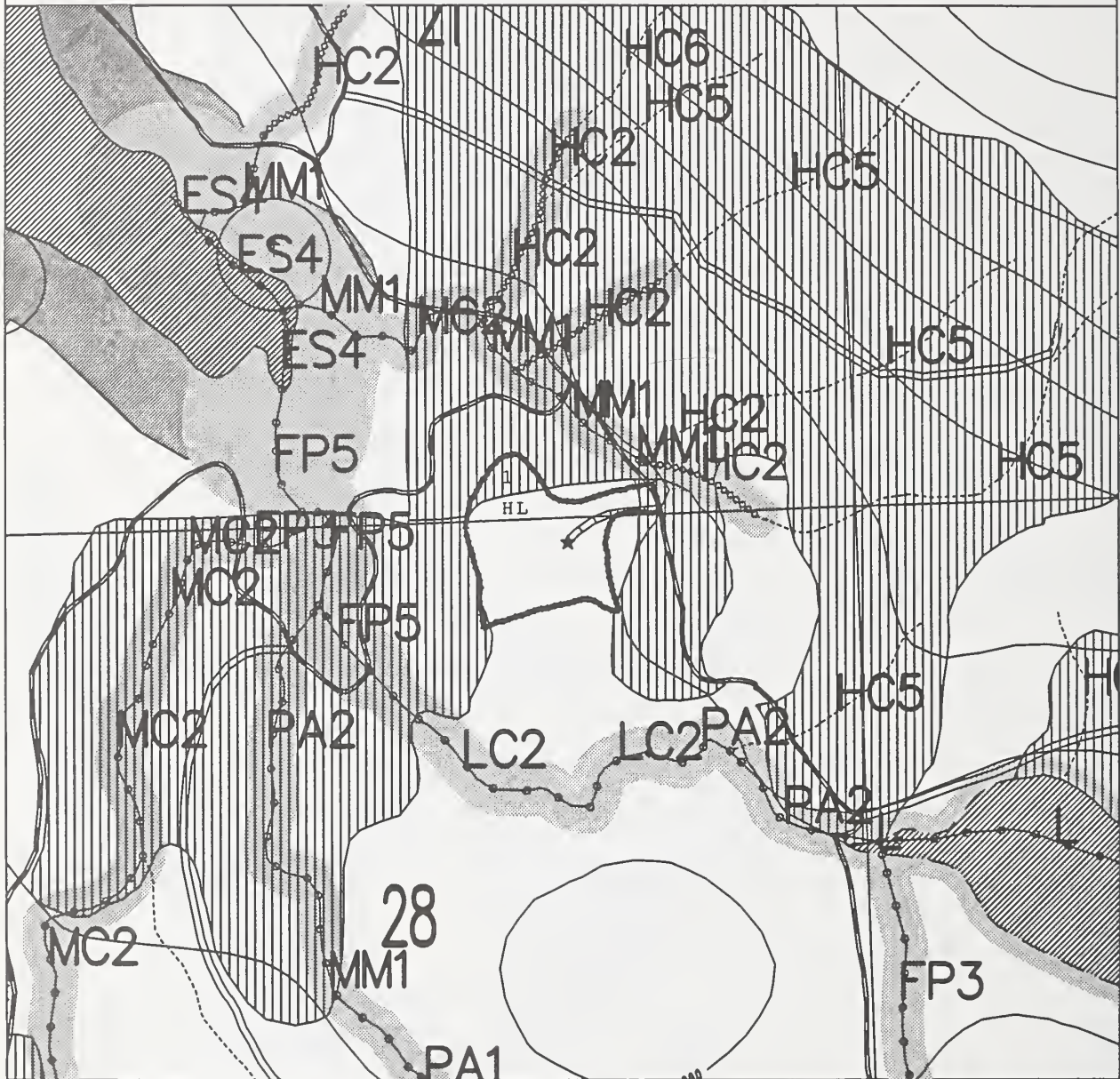
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8067

PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 420 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-11 LANDMET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8068</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>33</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>985</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 25 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 21 acres 1200-1500 ft. 12 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 12 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 85 Percent Unseen 15 Aspect North

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8068

PLANNED HARVEST UNIT MAP

ACRES: 33VOLUME: 985

MBP

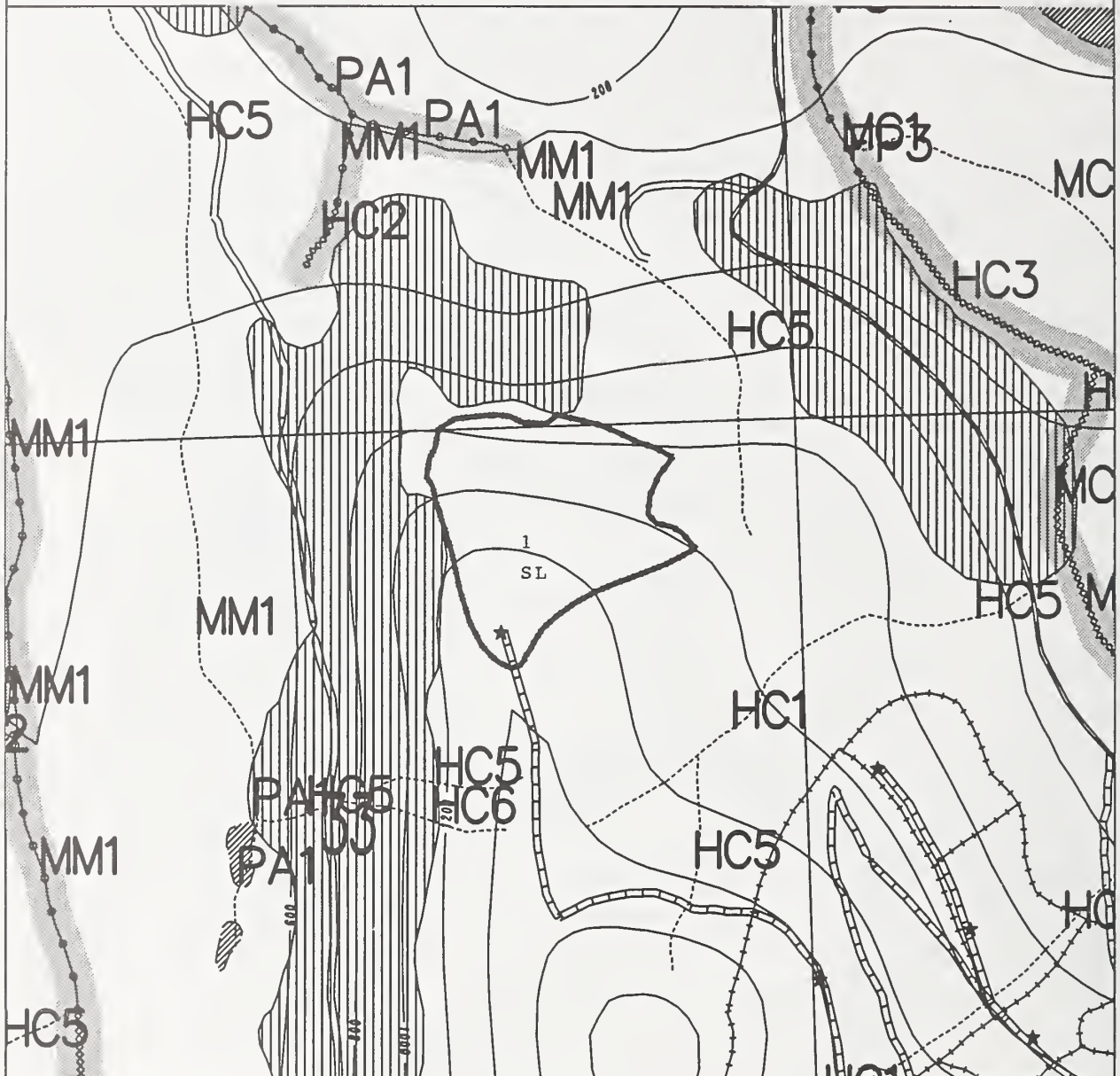
QUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM.: 1279-12

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER

SHELTERWOOD

HARVEST

BEACH BUFFER

July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8069</u>	No. Settings <u>7</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>117</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3204</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 73 acres VC5 44 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 12 acres 800-1200 ft. 61 acres 1200-1500 ft. 32 acres over 1500 ft. 12 acres
Mass movement index: Low 5 acres Medium 0 acres High 112 acres Very High 0 acres
Cedar 0 Hemlock 116 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 84 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 82 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 52 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

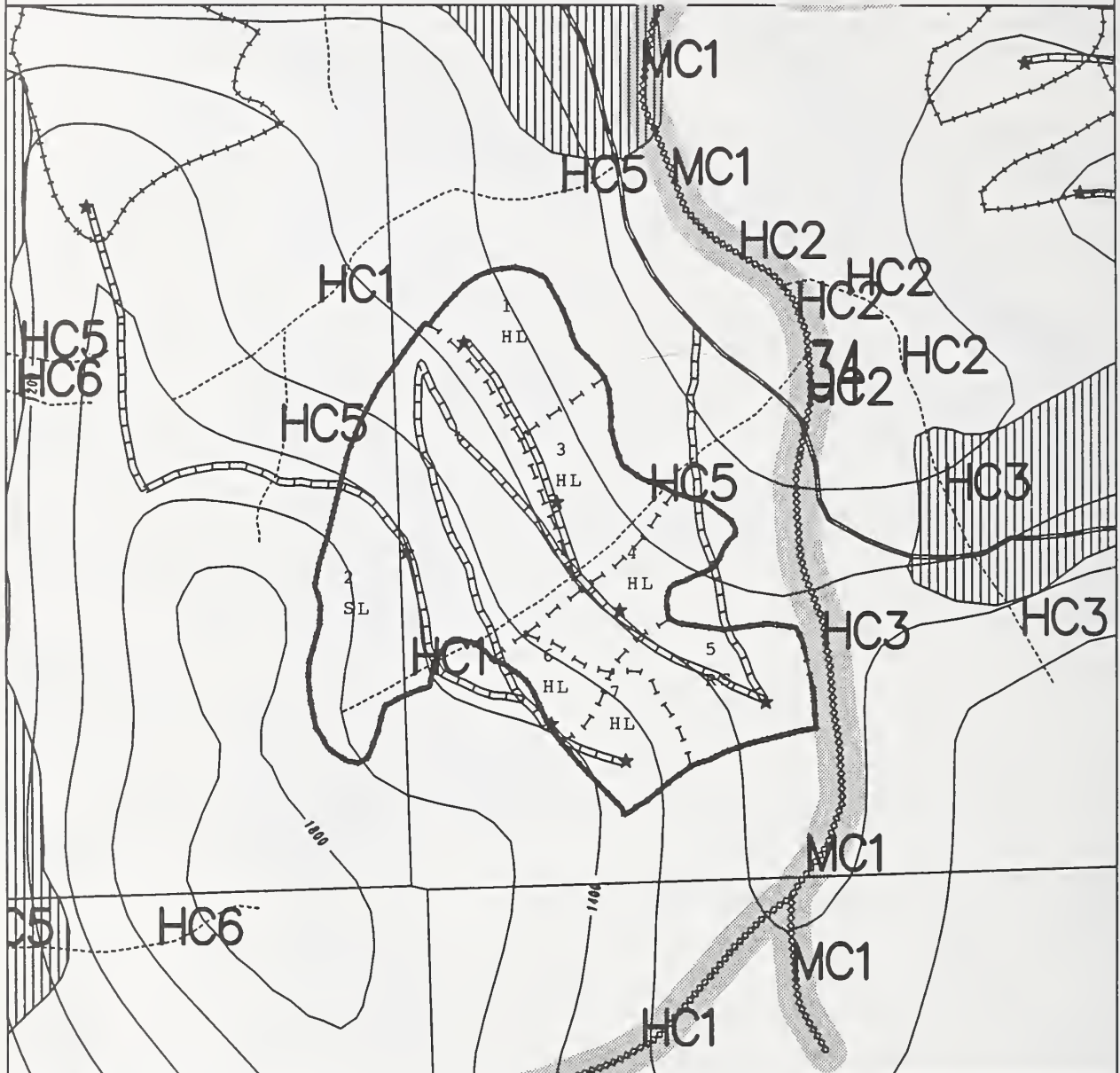
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8069

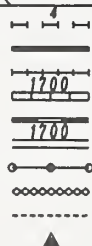
PLANNED HARVEST UNIT MAP

ACRES: 117 VOLUME: 3204 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD
 SL SLACKLINE
 RS RUNNING SKYLINE
 SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8070</u>	No. Settings <u>3</u>	Alternatives considered <u>3 5</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>952</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 23 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 35 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 3 acres High 31 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 33 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 35 VOLUME: 952 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

2000 feet

HL HICHLEAD

LANDING

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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114

SHELTERWOOD

HARVEST

BRACH BUPPER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8071</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>41</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1175</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 31 acres 800-1200 ft. 10 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 32 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 41 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 41 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

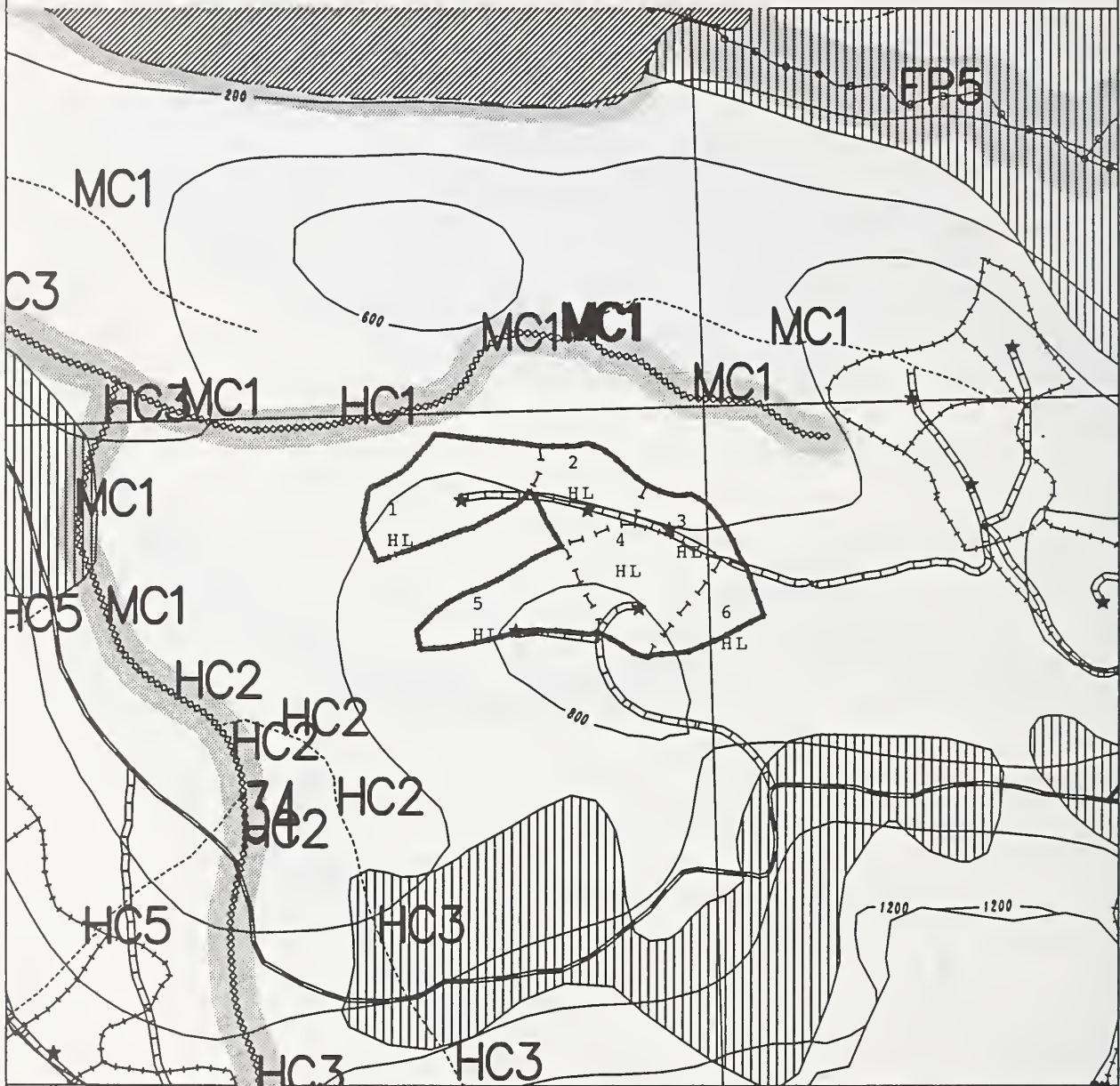
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8071

PLANNED HARVEST UNIT MAP

ACRES: 41 VOLUME: 1175 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



SHELTERWOOD



BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8072</u>	No. Settings <u>4</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>39</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>974</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 39 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 14 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 7 acres Medium 24 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 37 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

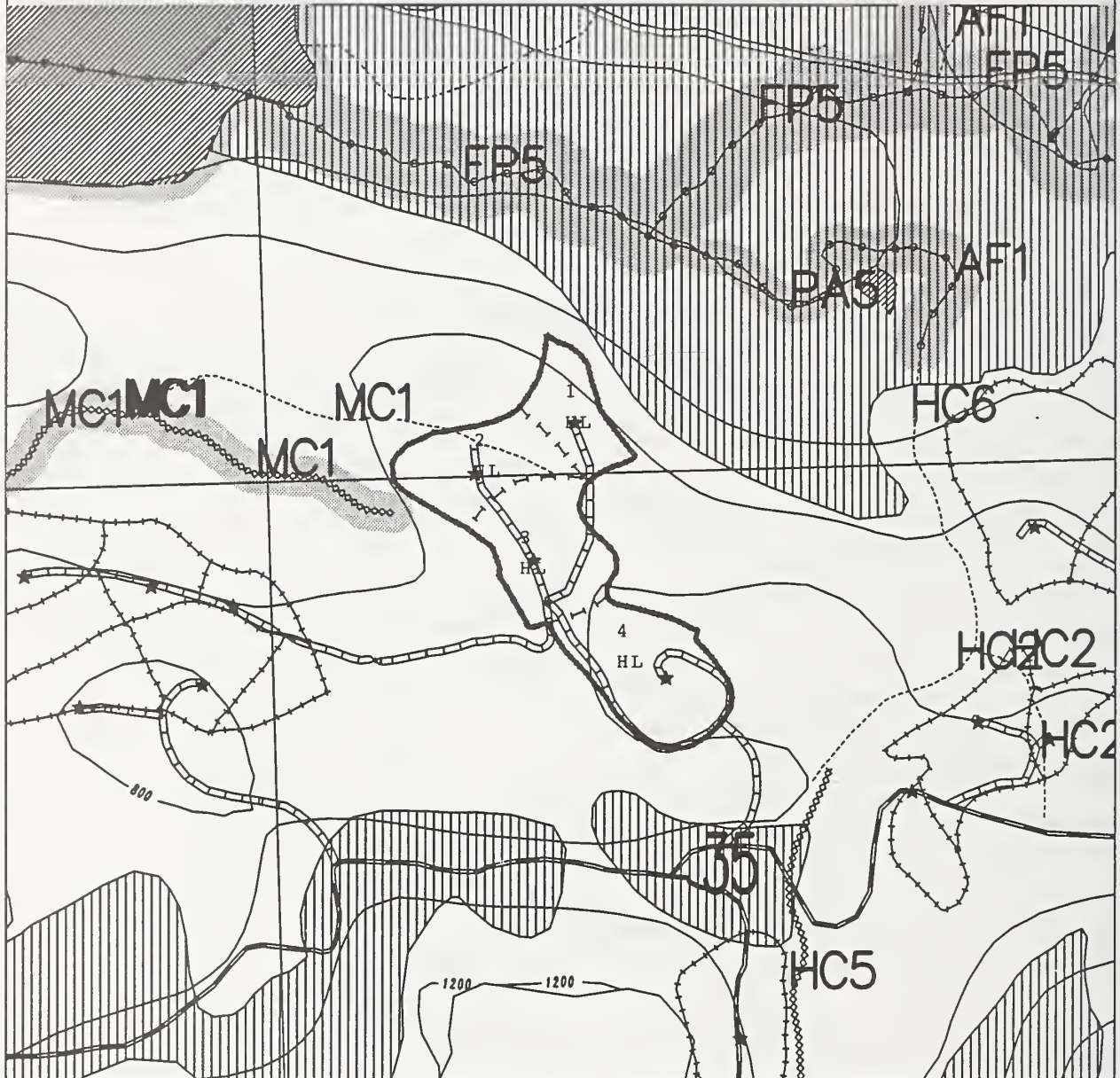
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8072

PLANNED HARVEST UNIT MAP

ACRES: 39 VOLUME: 974 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1279-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (circle with cross)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8073</u>	No. Settings <u>1</u>	Alternatives considered <u>3 4 5 6</u>	VQO <u>MM</u>
Planned acres <u>28</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>878</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 28 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 28 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 6 acres High 0 acres Very High 22 acres
Cedar 0 Hemlock 27 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 27 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8073

PLANNED HARVEST UNIT MAP

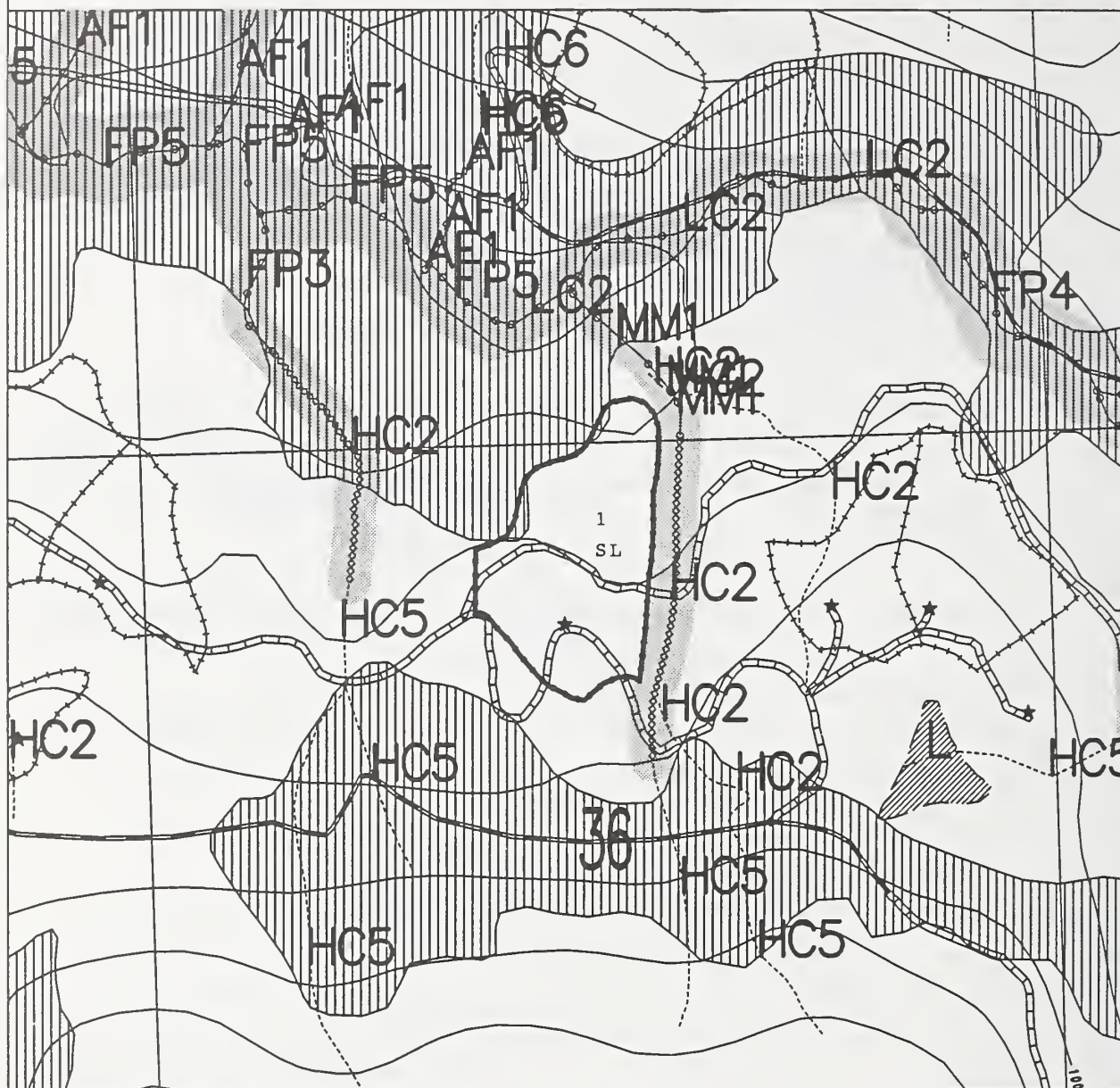
ACRES: 28VOLUME: 878 MBPQUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-17

LANDNET INFO

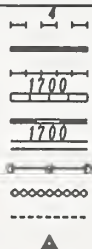
TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE



SHELTERWOOD

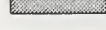
HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8074</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>45</u>	Quad <u>KTNC5NWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1411</u>	Mgmt Area <u>K32</u>	VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>	WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-17</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 45 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 19 acres 800-1200 ft. 26 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 0 acres Very High 45 acres
Cedar 0 Hemlock 45 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 45 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 45 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 43 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

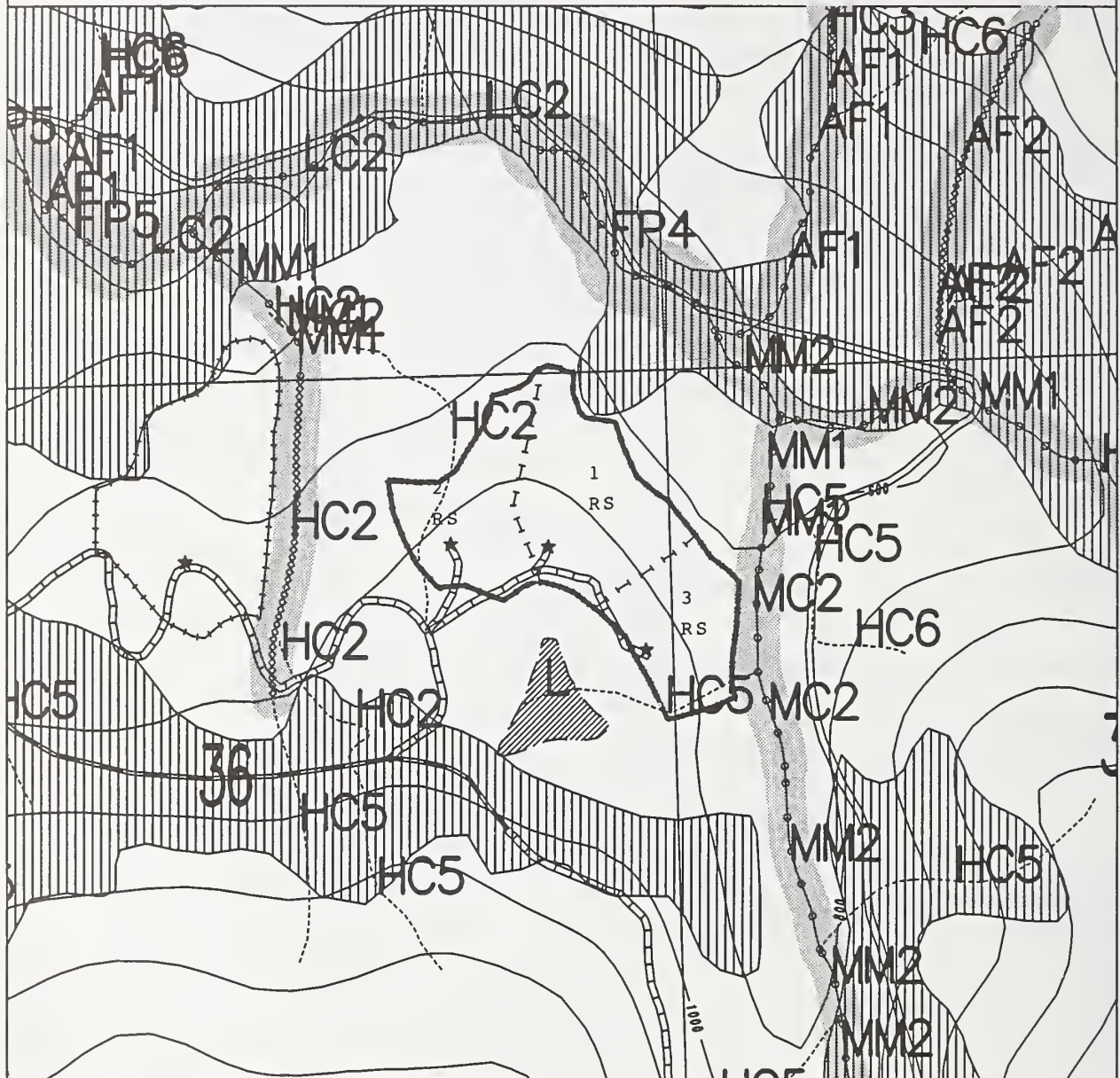
VCU: 7380

UNIT NUMBER: 8074

PLANNED HARVEST UNIT MAP

ACRES: 45 VOLUME: 1411 MBP QUAD(+): KTNC5 QUARTER QUAD(+): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST



BEACH BUFFER



SHELTERWOOD

HARVEST



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8075</u>	No. Settings <u>4</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>56</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1928</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>NME</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 30 acres VC6 21 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 24 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 22 acres Medium 0 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 36 Mixed 20 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 56 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

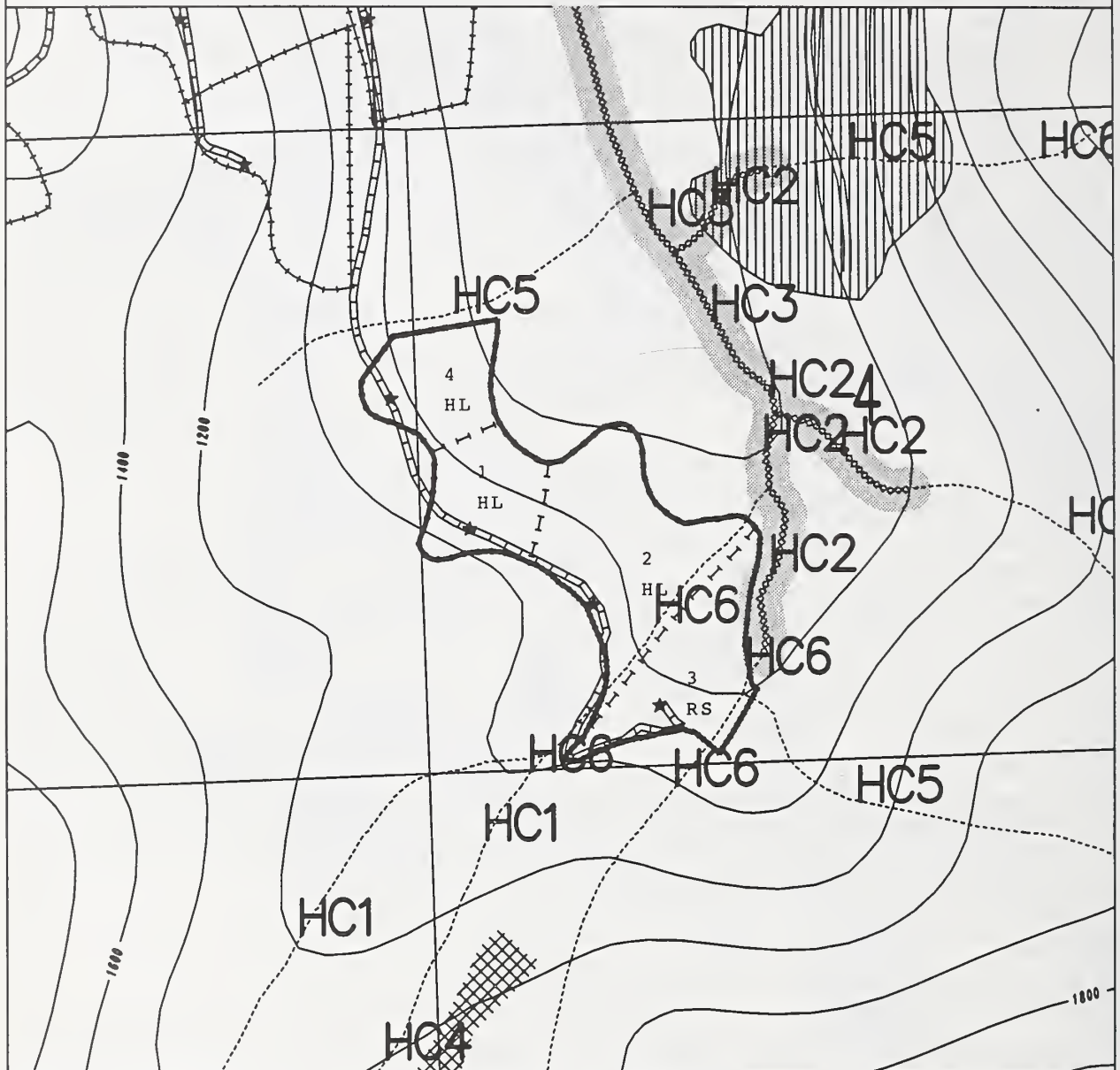
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8075

PLANNED HARVEST UNIT MAP

ACRES: 56 VOLUME: 1928 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8076</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>128</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3756</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 49 acres VC5 77 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 38 acres 800-1200 ft. 56 acres 1200-1500 ft. 26 acres over 1500 ft. 6 acres
Mass movement index: Low 27 acres Medium 0 acres High 99 acres Very High 0 acres
Cedar 0 Hemlock 124 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 59 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 22 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8076

PLANNED HARVEST UNIT MAP

ACRES: 128VOLUME: 3756

MBP

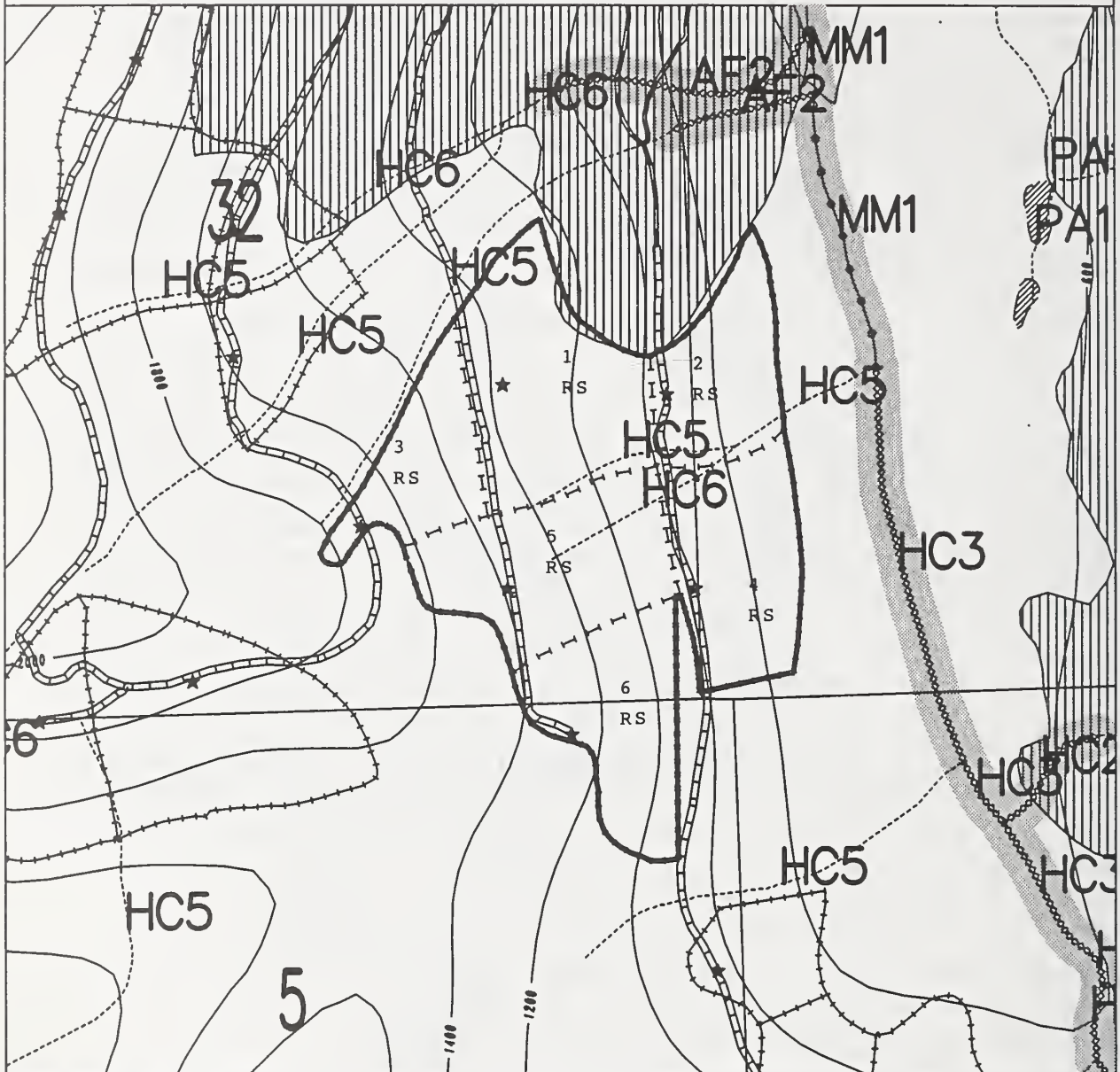
QUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-60

LANDNET INFO

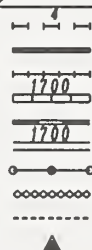
TOWNSHIP

71SRANGR 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design at the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8077</u>	No. Settings <u>5</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>73</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2374</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 51 acres VC6 14 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 16 acres over 1500 ft. 57 acres
Mass movement index: Low 24 acres Medium 0 acres High 49 acres Very High 0 acres
Cedar 0 Hemlock 5 Mixed 68 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 60 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 58 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8077

PLANNED HARVEST UNIT MAP

ACRES: 73VOLUME: 2374

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWS

PHOTO NUM.:

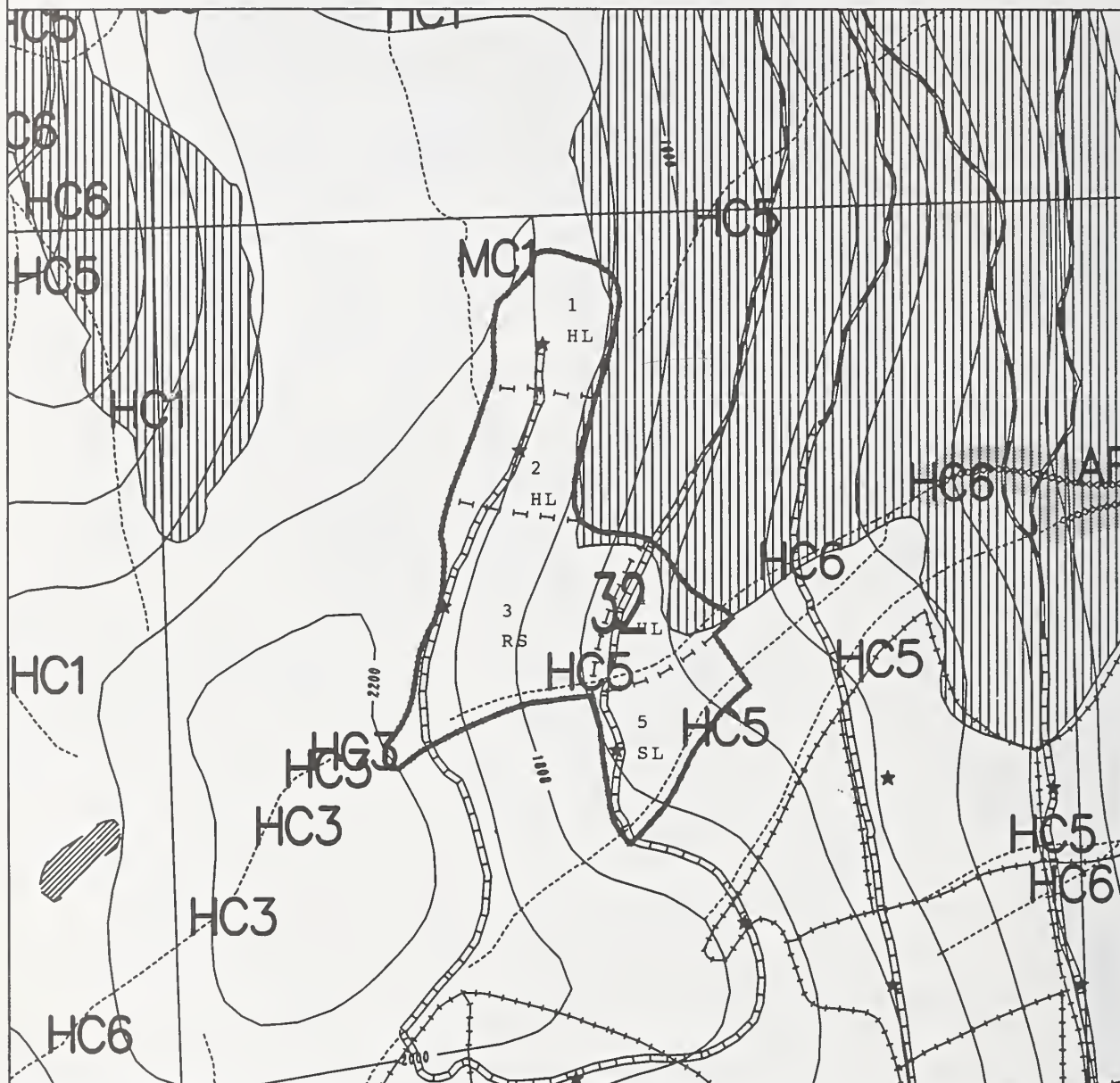
1179-61

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE ↑

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

RS RUNNING SKYLINE

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8078</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1098</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 35 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 35 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 18 acres Medium 16 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 3 Percent Seen 31 Percent Unseen 69 Aspect East

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 31 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

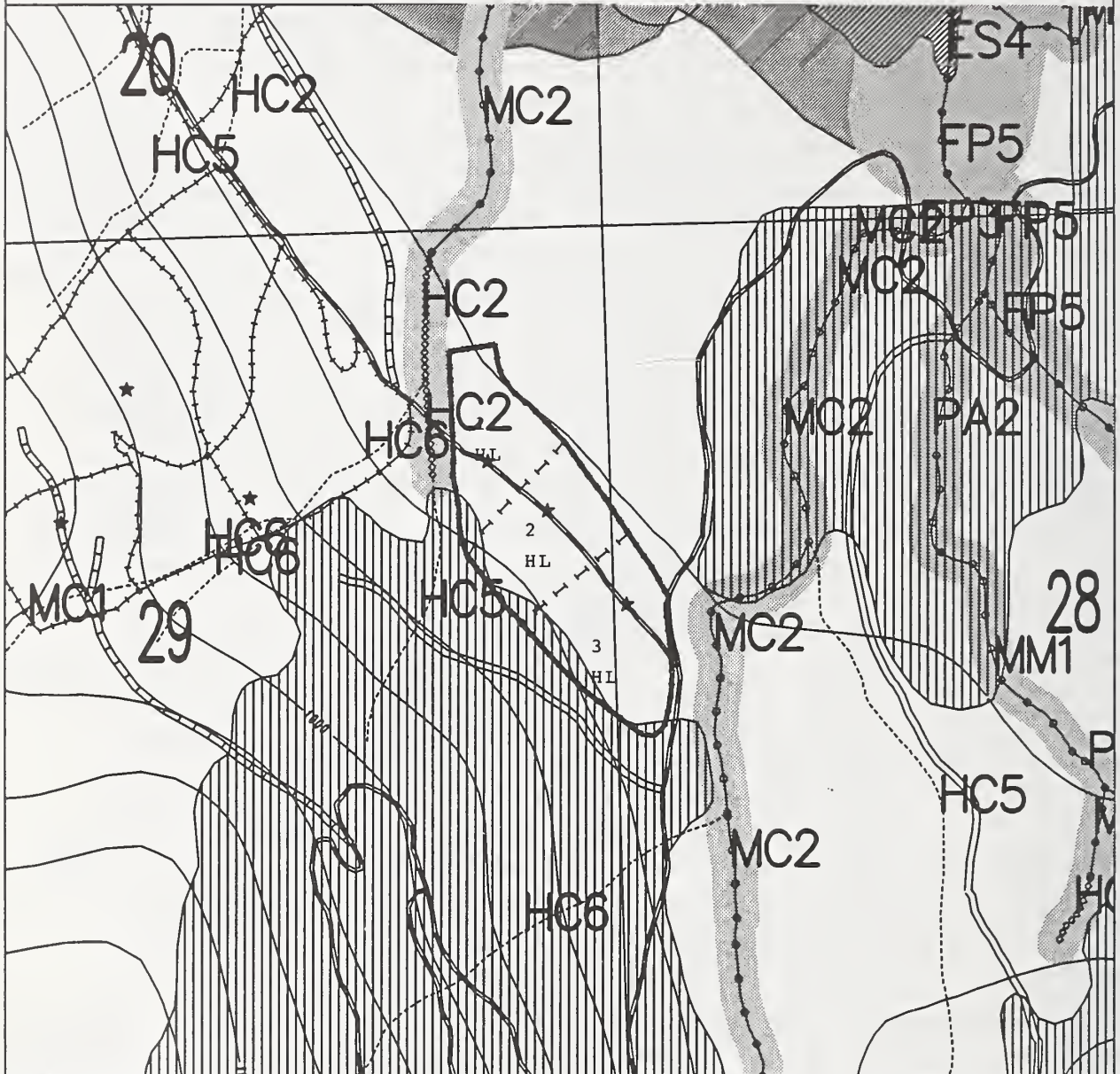
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8078

PLANNED HARVEST UNIT MAP

ACRES: 35 VOLUME: 1098 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN/NWS
 PHOTO NUM.: 1179-62 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (⊕)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8079</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>115</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3877</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 74 acres VC6 33 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 47 acres 800-1200 ft. 47 acres 1200-1500 ft. 21 acres over 1500 ft. 0 acres
Mass movement index: Low 65 acres Medium 0 acres High 50 acres Very High 0 acres
Cedar 0 Hemlock 112 Mixed 3 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 114 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 25 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 39 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

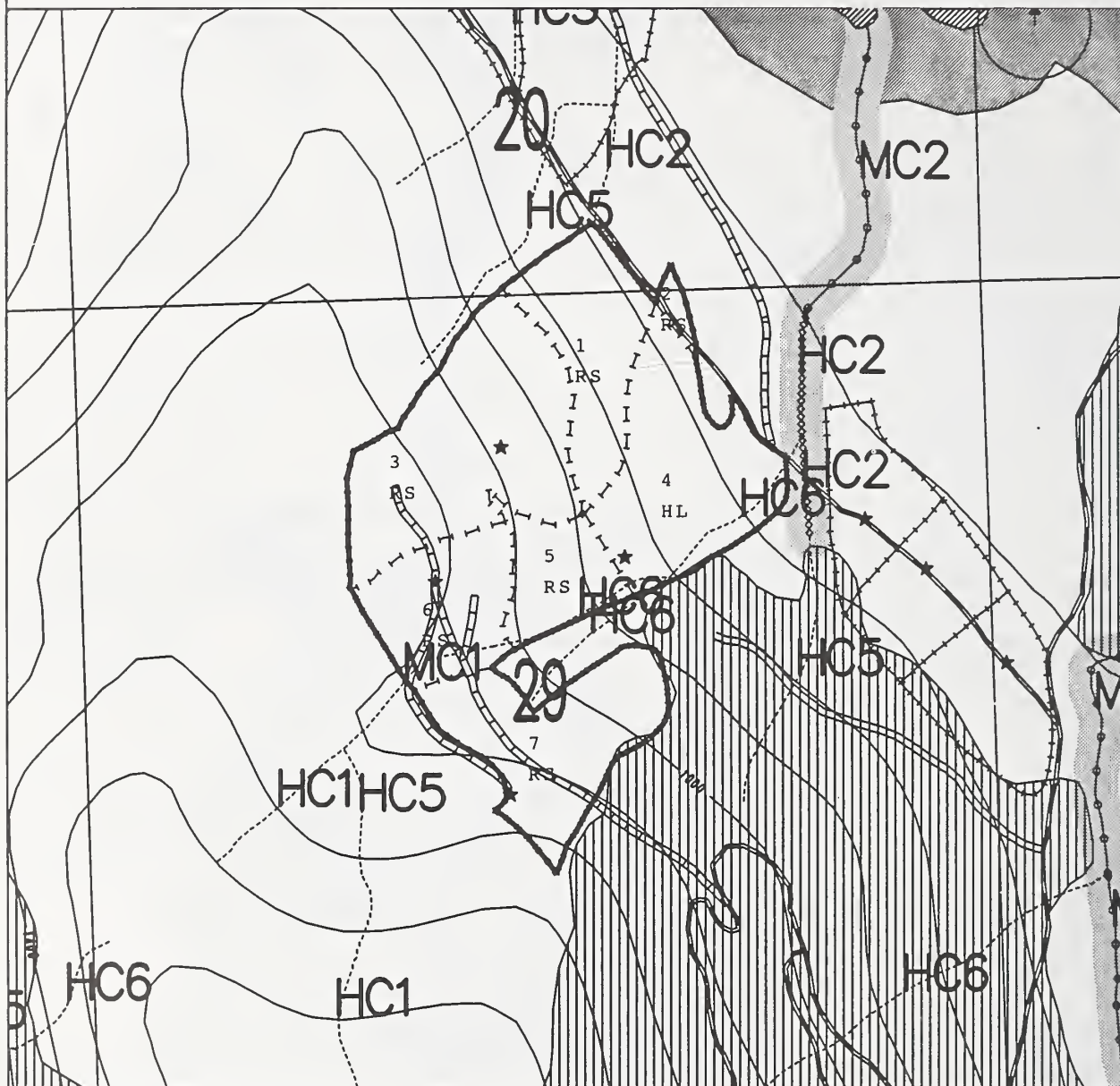
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8079

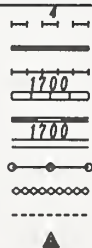
PLANNED HARVEST UNIT MAP

ACRES: 115 VOLUME: 3877 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN/NWS
 PHOTO NUM.: 1179-63 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8080</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>39</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1262</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 35 acres VC6 4 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 39 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 23 acres Medium 0 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 39 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 20 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

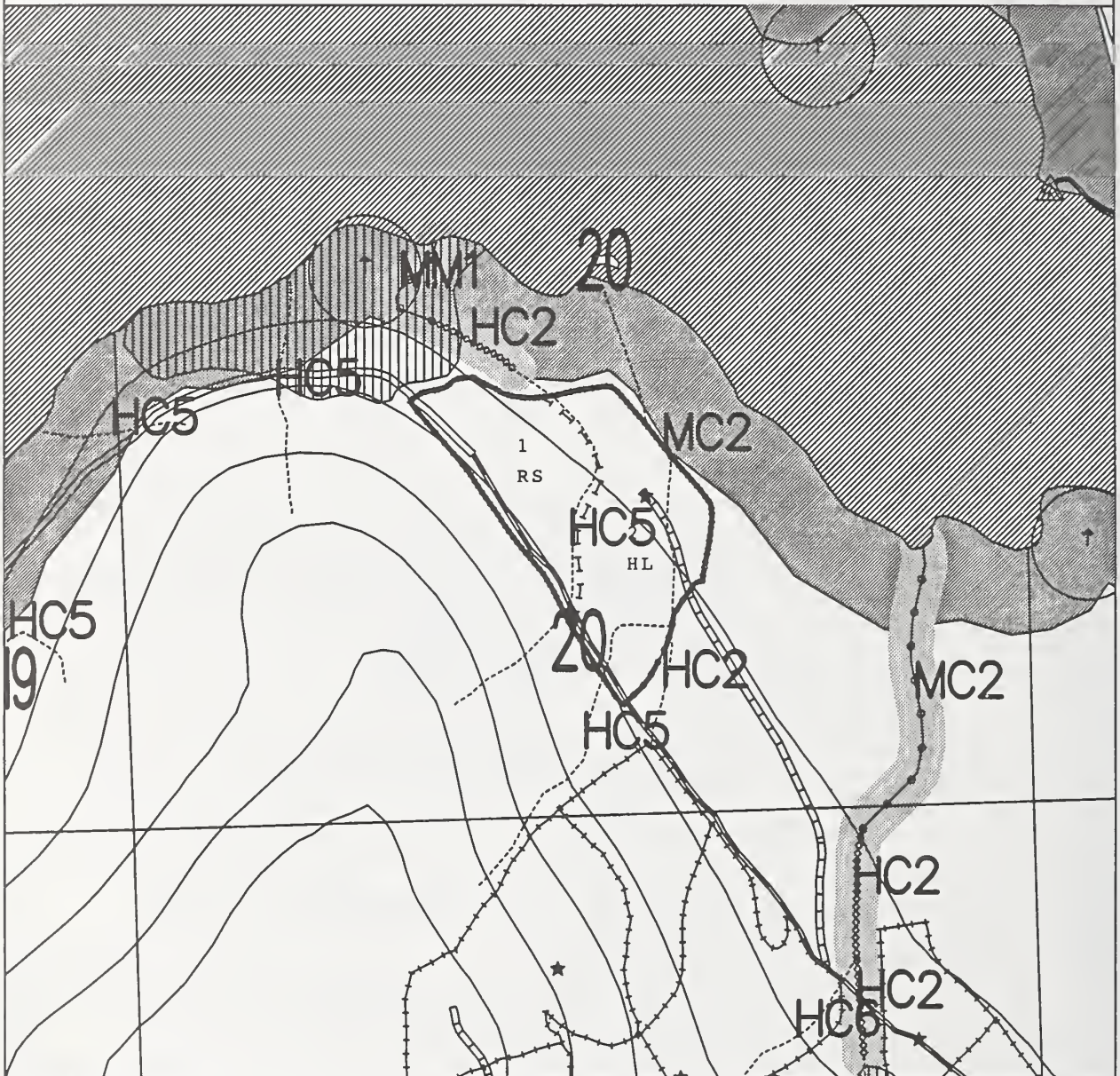
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8080

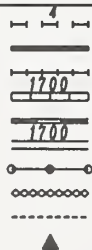
PLANNED HARVEST UNIT MAP

ACRES: 39 VOLUME: 1262 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-63 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8081</u>	No. Settings <u>4</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>82</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3037</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 34 acres VC6 48 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 3 acres 800-1200 ft. 76 acres 1200-1500 ft. 3 acres over 1500 ft. 0 acres
Mass movement index: Low 20 acres Medium 1 acres High 61 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 75 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 82 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 50 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

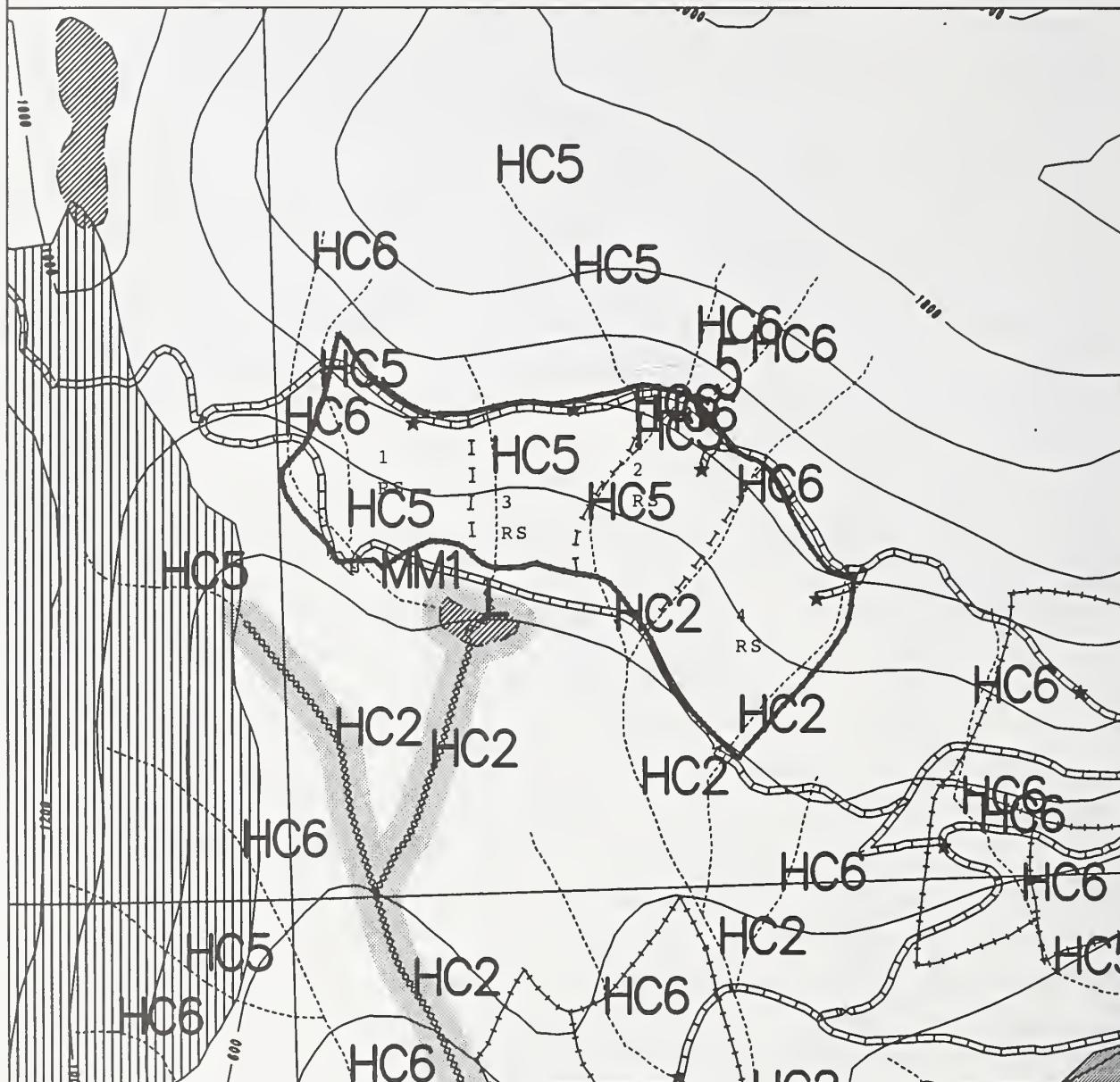
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8081

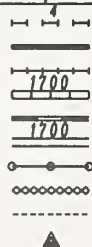
PLANNED HARVEST UNIT MAP

ACRES: 82 VOLUME: 3037 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8082</u>	No. Settings <u>5</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>93</u>		Quad <u>KTNC6NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3222</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 60 acres VC6 32 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 47 acres 800-1200 ft. 33 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 56 acres Medium 0 acres High 37 acres Very High 0 acres
Cedar 0 Hemlock 92 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 18 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 35 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8082

PLANNED HARVEST UNIT MAP

ACRES: 93VOLUME: 3222

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWN/NWS

PHOTO NUM.:

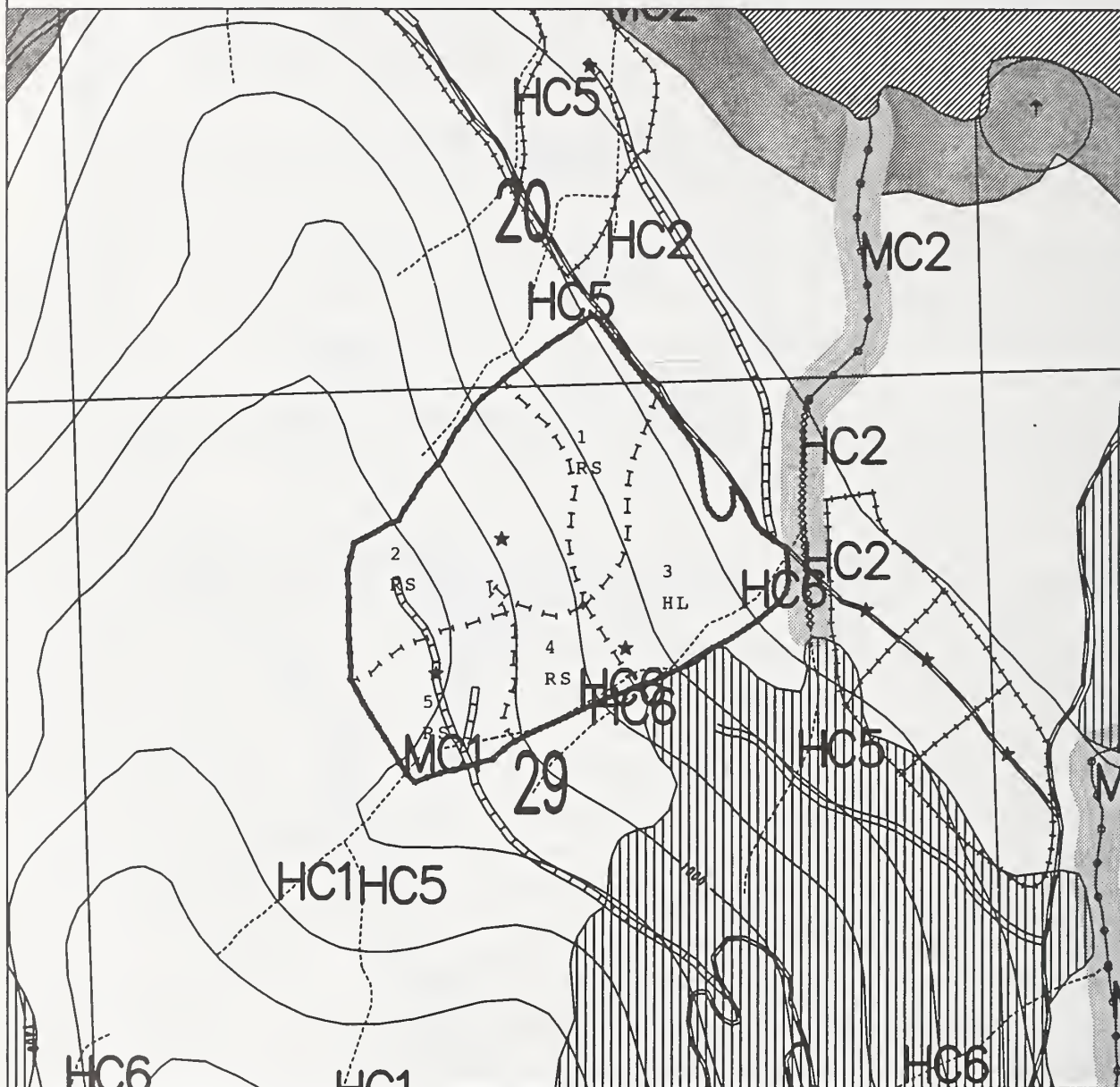
1179-63

LANDNET INFO

TOWNSHIP

71SRANGR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
EAGLE TREE (circle with cross)
EXISTING CLEARCUT (circle with cross)
SALTWATER AND LAKES (hatched area)
CLASS I & II STREAM BUFFER (hatched area)

LOGGING SYSTEMS:

RS RUNNING SKYLINE
HL HIGHLEAD

SHELTERWOOD (hatched area)
HARVEST (hatched area)
BEACH BUFFER (hatched area)

July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8083</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>26</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>650</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-8</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 14 acres Medium 12 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit contains 26 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 26 VOLUME: 650 MBF QUAD(s): KTNC6 QUARTER QUAD(s): NWN
PHOTO NUM.: 1179-8 LANDNET INFO TOWNSHIP 71S RANGE 89E

[illegible]

MAPSCALE 1:12000



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HL HICHL EAD



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8084</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>24</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>600</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 15 acres Medium 9 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 23 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8084

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 600 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-9 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8085</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>6</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>150</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 6 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8085

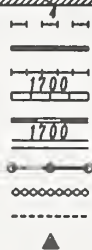
PLANNED HARVEST UNIT MAP

ACRES: 6 VOLUME: 150 MBF QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-9 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8087</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>21</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>659</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 20 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 0 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 21 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

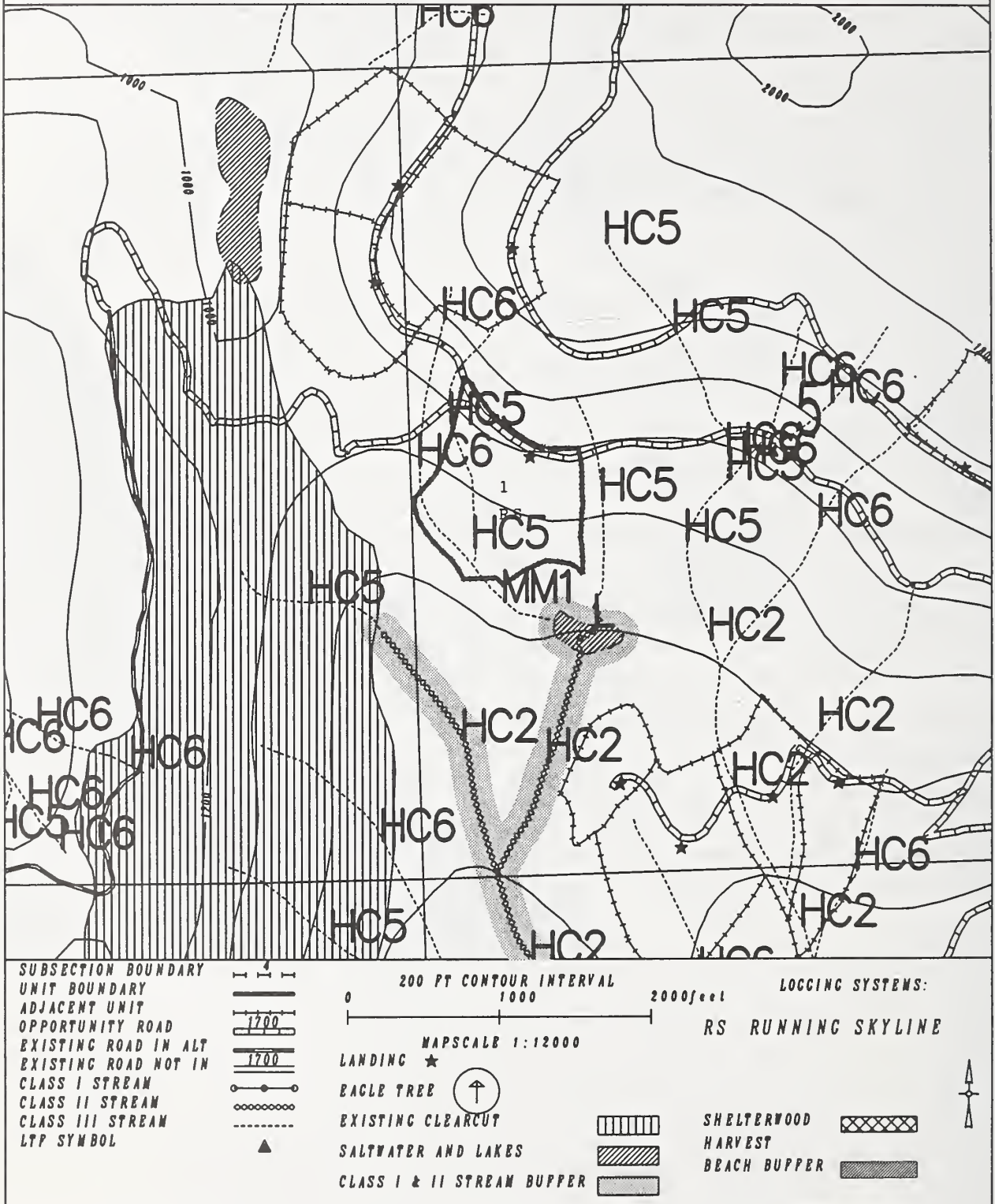
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8087

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 659 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8088</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>52</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2018</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMM</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-67</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 12 acres VC6 40 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 52 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 17 acres Medium 24 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 12 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 52 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

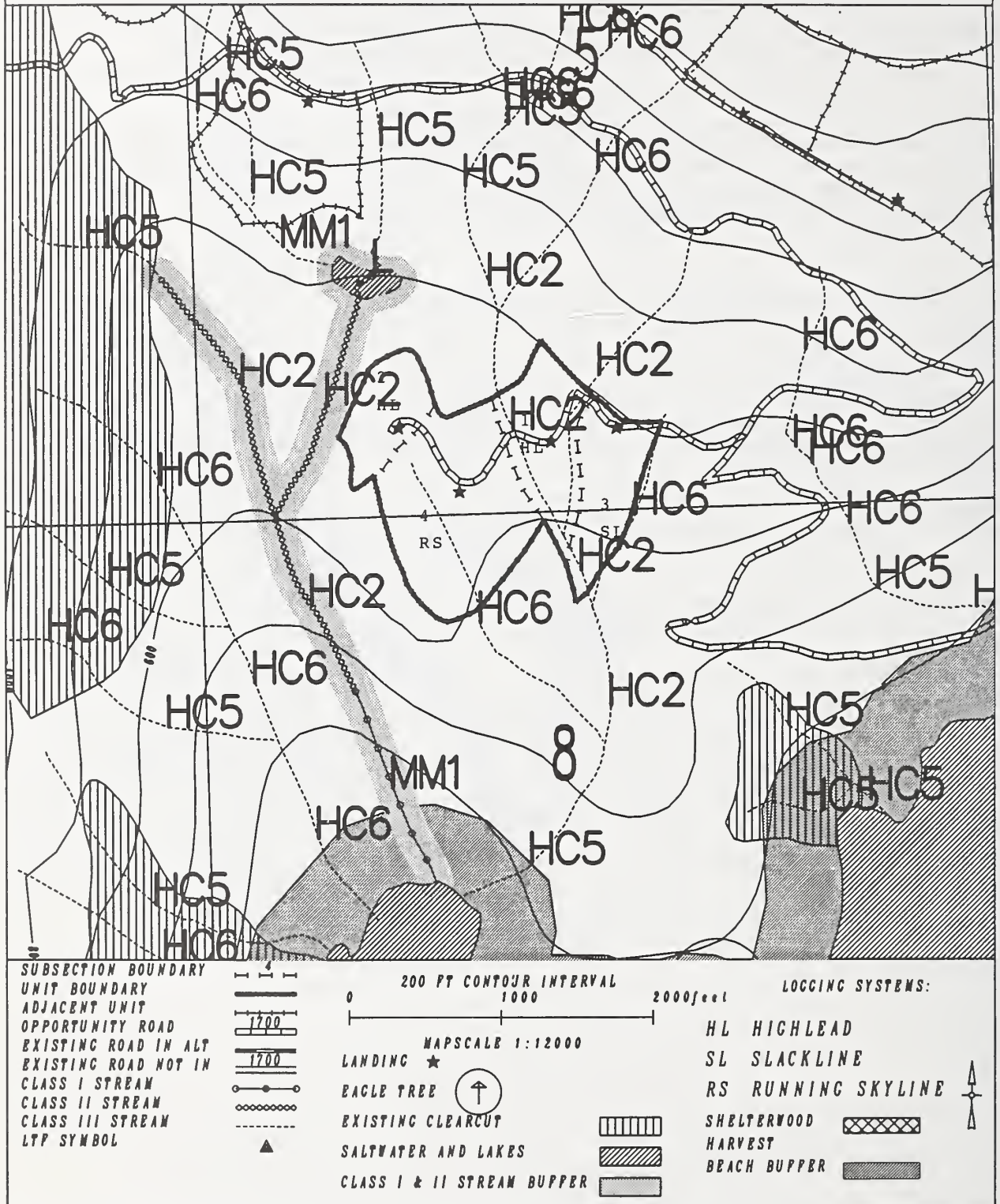
VCU: 7380

UNIT NUMBER: 8088

PLANNED HARVEST UNIT MAP

ACRES: 52 VOLUME: 2018 MBP QUAD(s): KTNCS QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8089</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>42</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1491</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 18 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 10 acres over 1500 ft. 32 acres
Mass movement index: Low 0 acres Medium 0 acres High 42 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 42 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 42 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

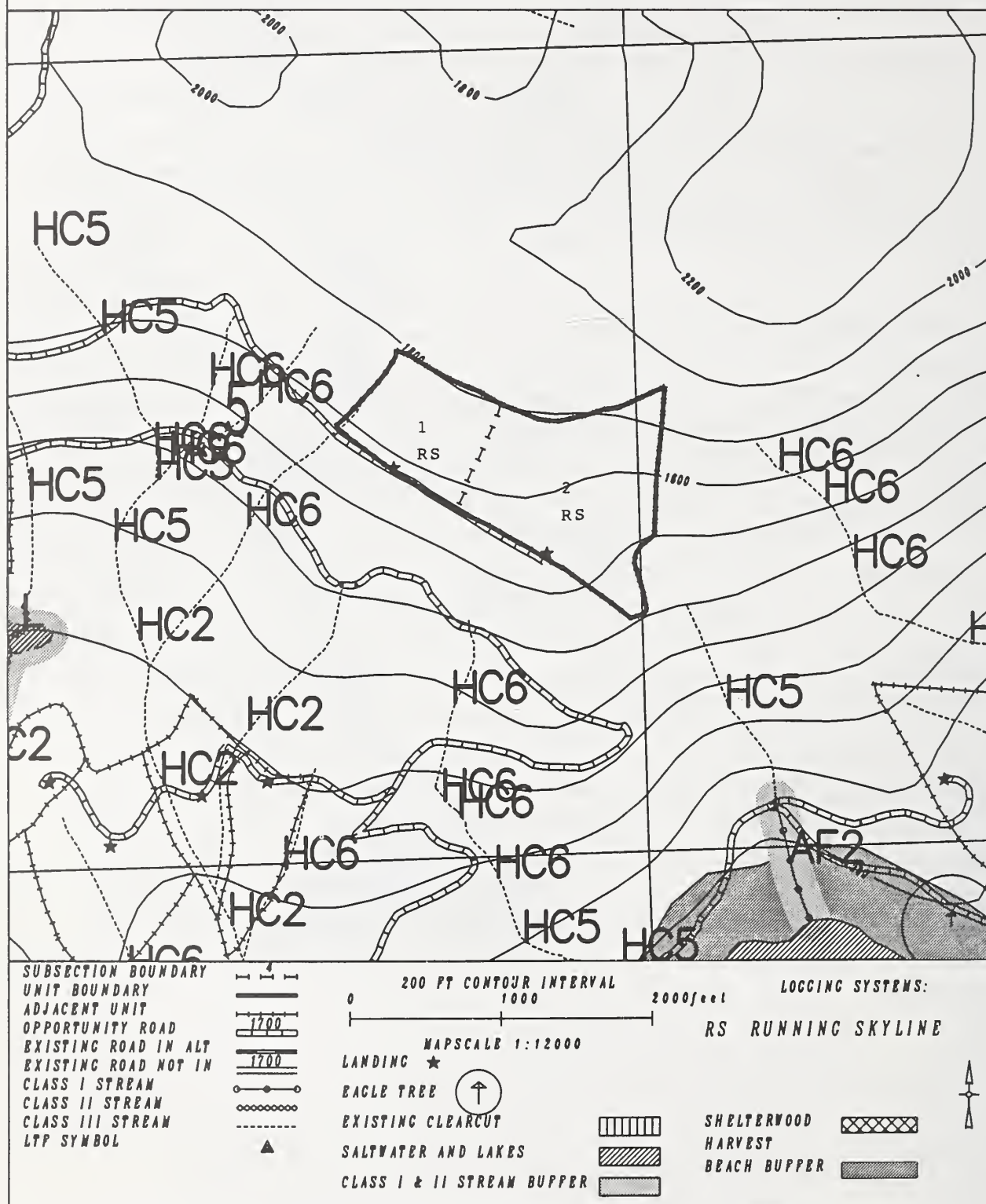
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8089

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1491 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8090</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>20</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>627</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 20 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 1 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

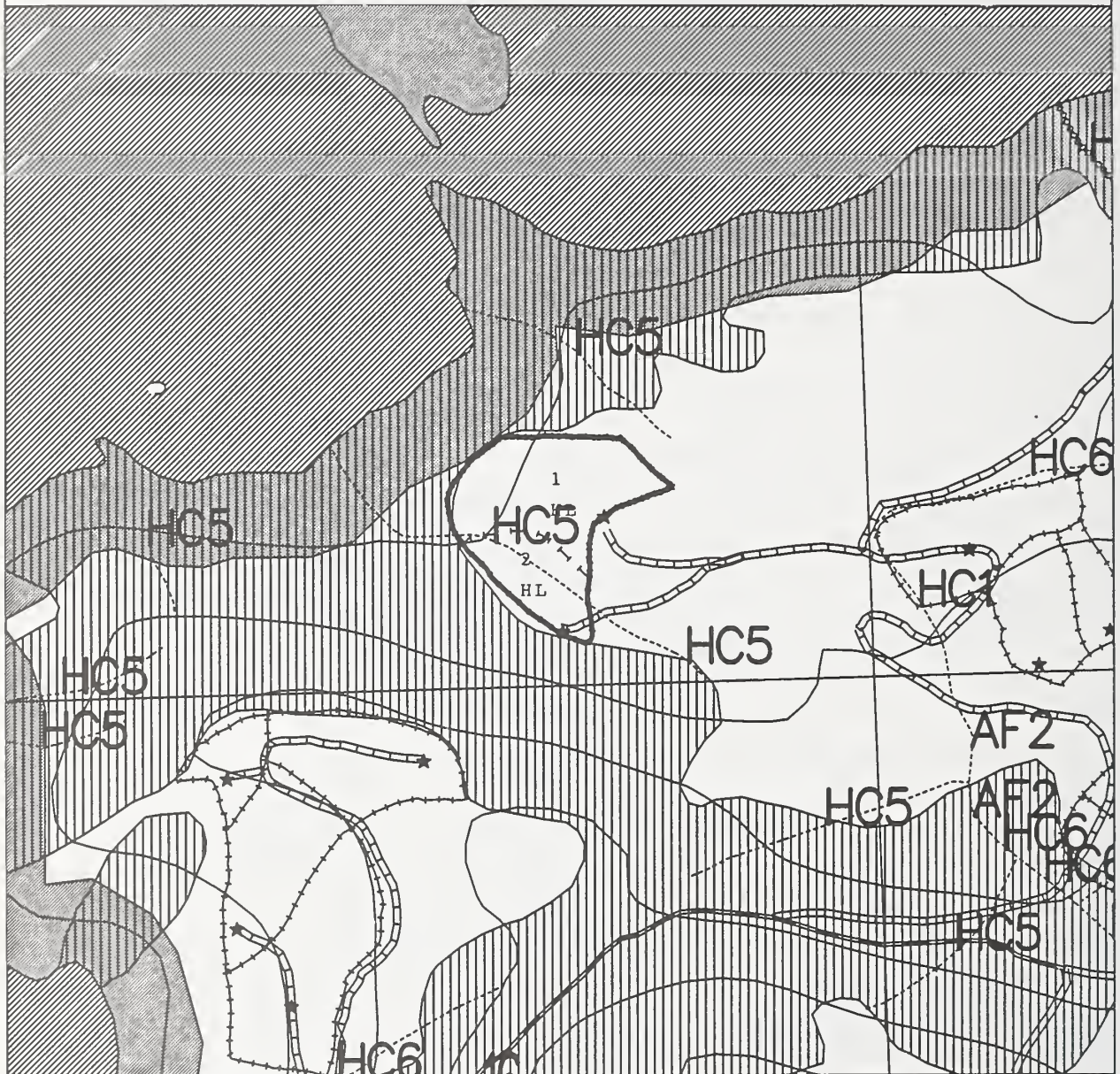
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8090

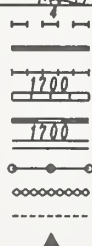
PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 627 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP RANGE

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

HL HIGH LEAD



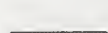
SHELTERWOOD



HARVEST



BEACH BUPPER



July 04, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8091</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>44</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1380</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 44 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 44 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 44 acres Very High 0 acres
Cedar 0 Hemlock 44 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

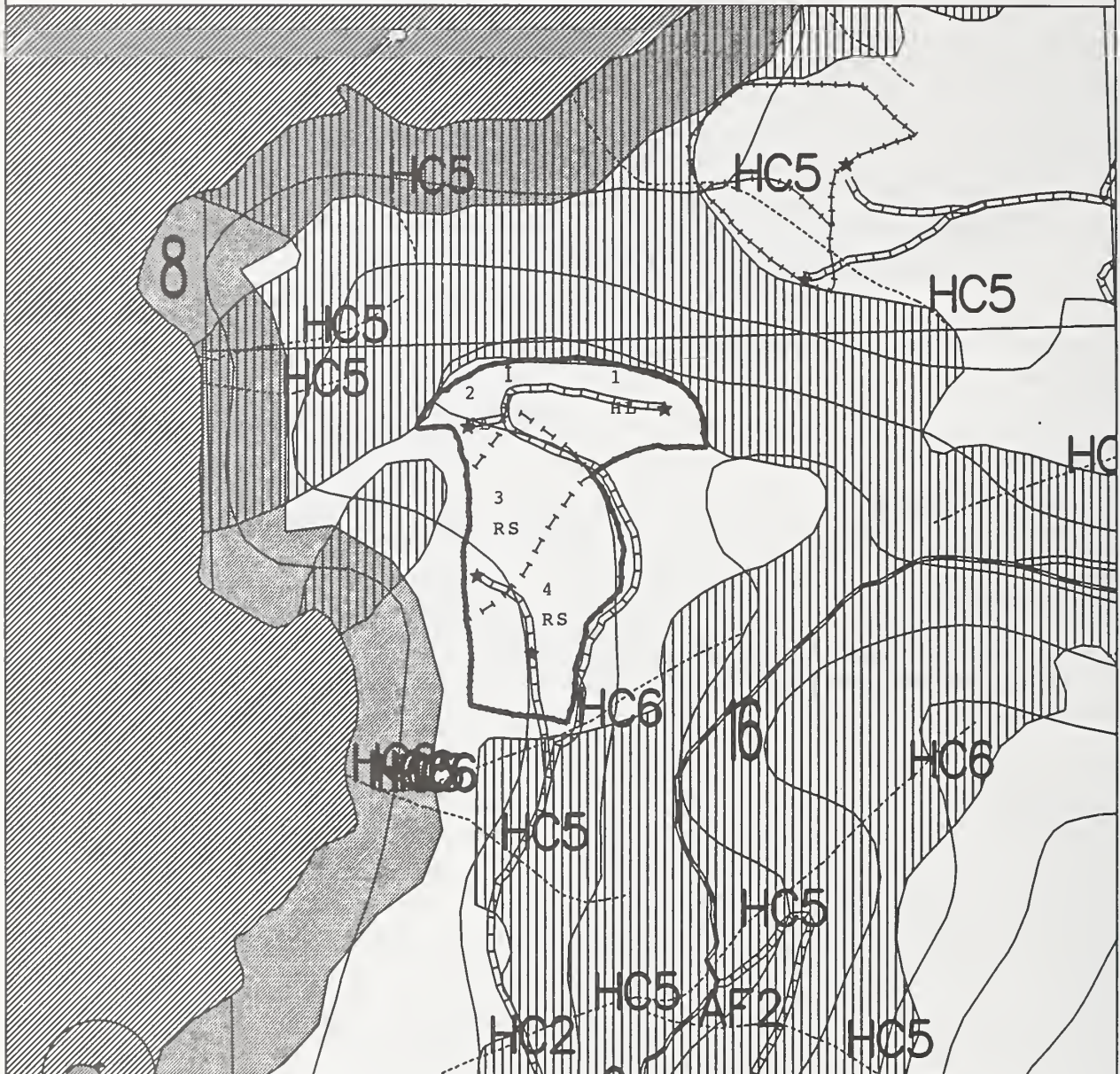
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8091

PLANNED HARVEST UNIT MAP

ACRES: 44 VOLUME: 1380 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8092</u>	No. Settings <u>6</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>42</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1123</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 30 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 39 acres 800-1200 ft. 3 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 18 acres High 23 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 42 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

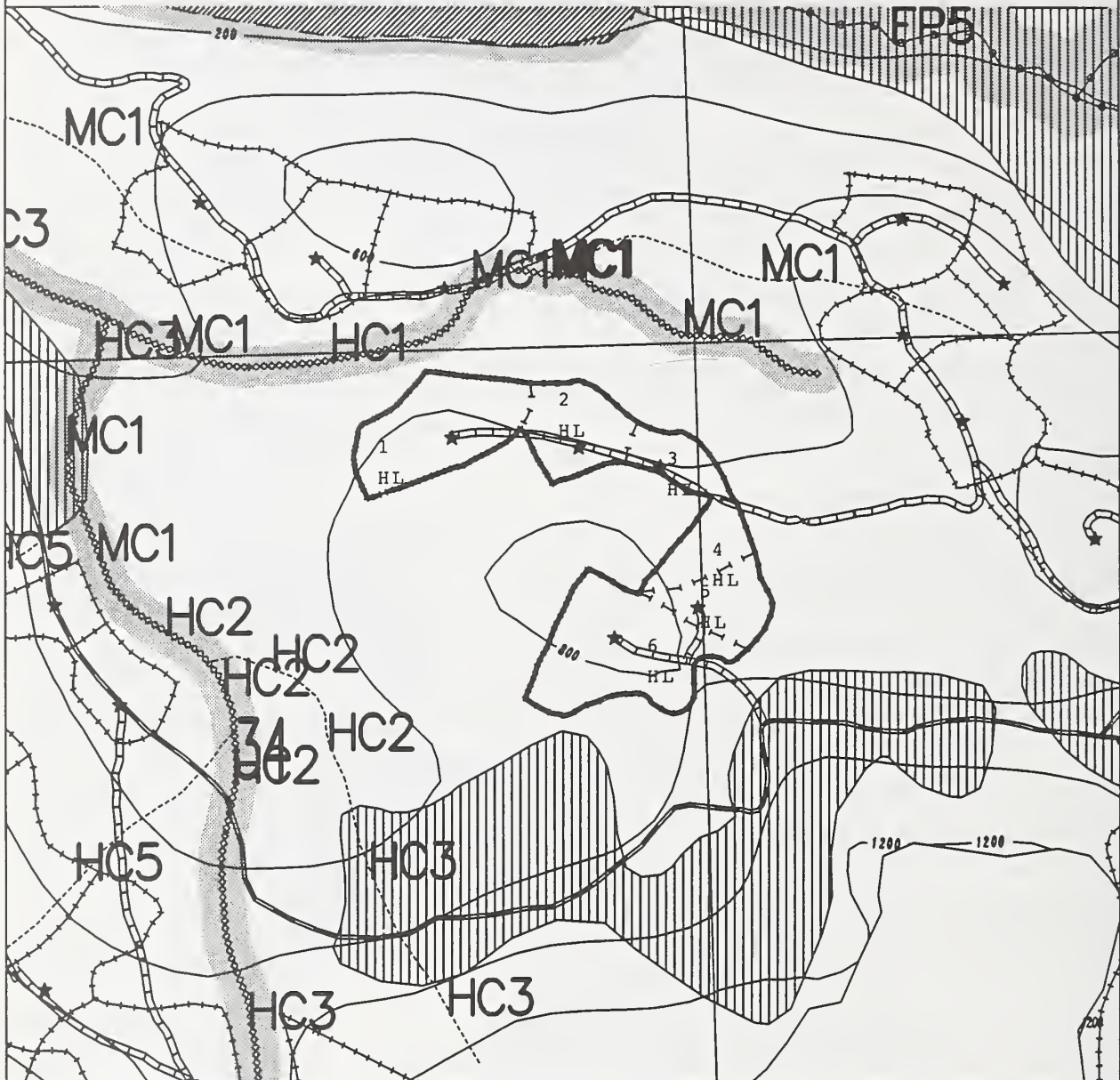
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8092

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1123 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8093</u>	No. Settings <u>5</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>48</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1198</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 48 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 16 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 26 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 46 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 48 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

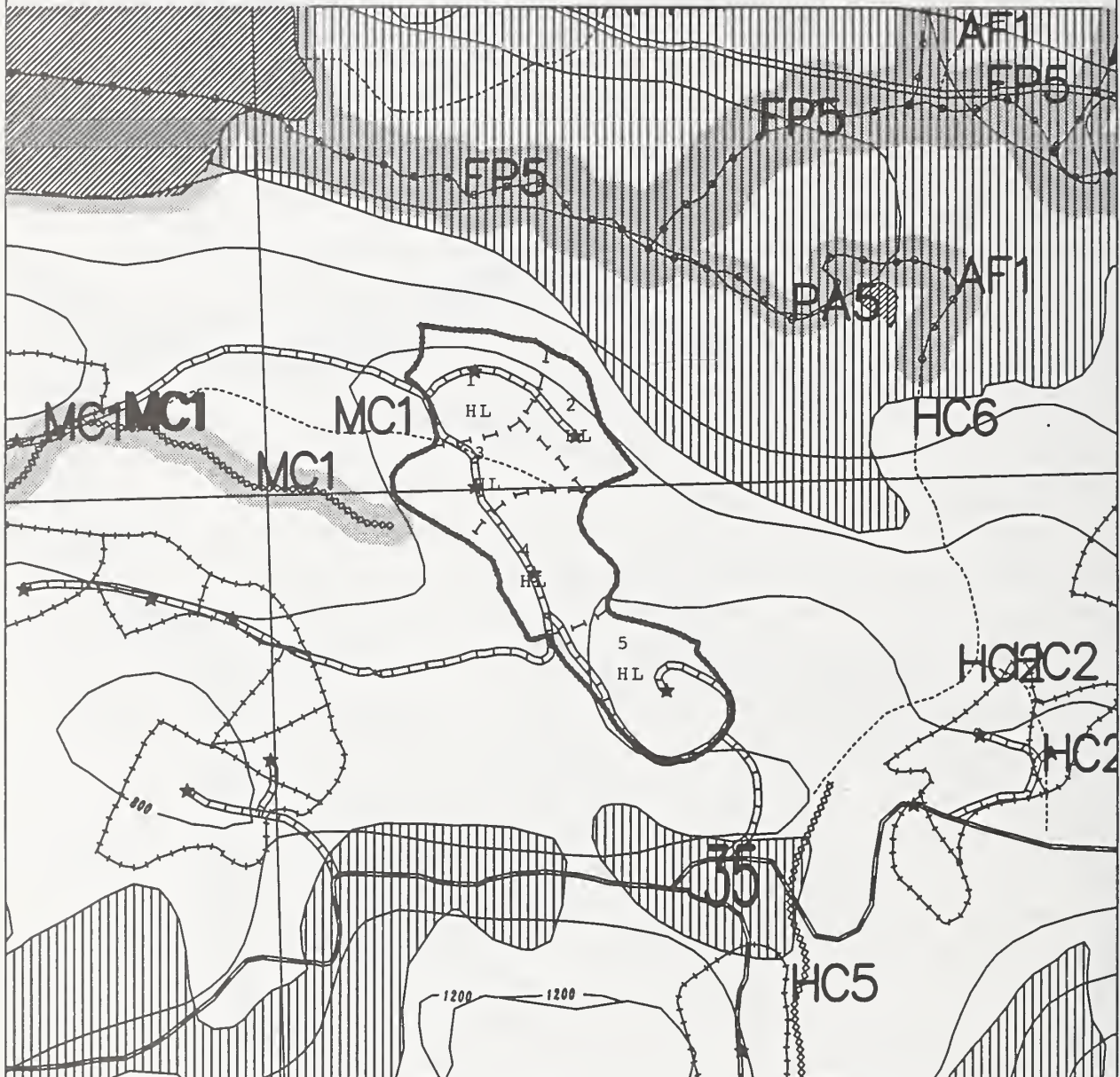
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8093

PLANNED HARVEST UNIT MAP

ACRES: 48 VOLUME: 1198 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1279-12 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8094</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>464</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

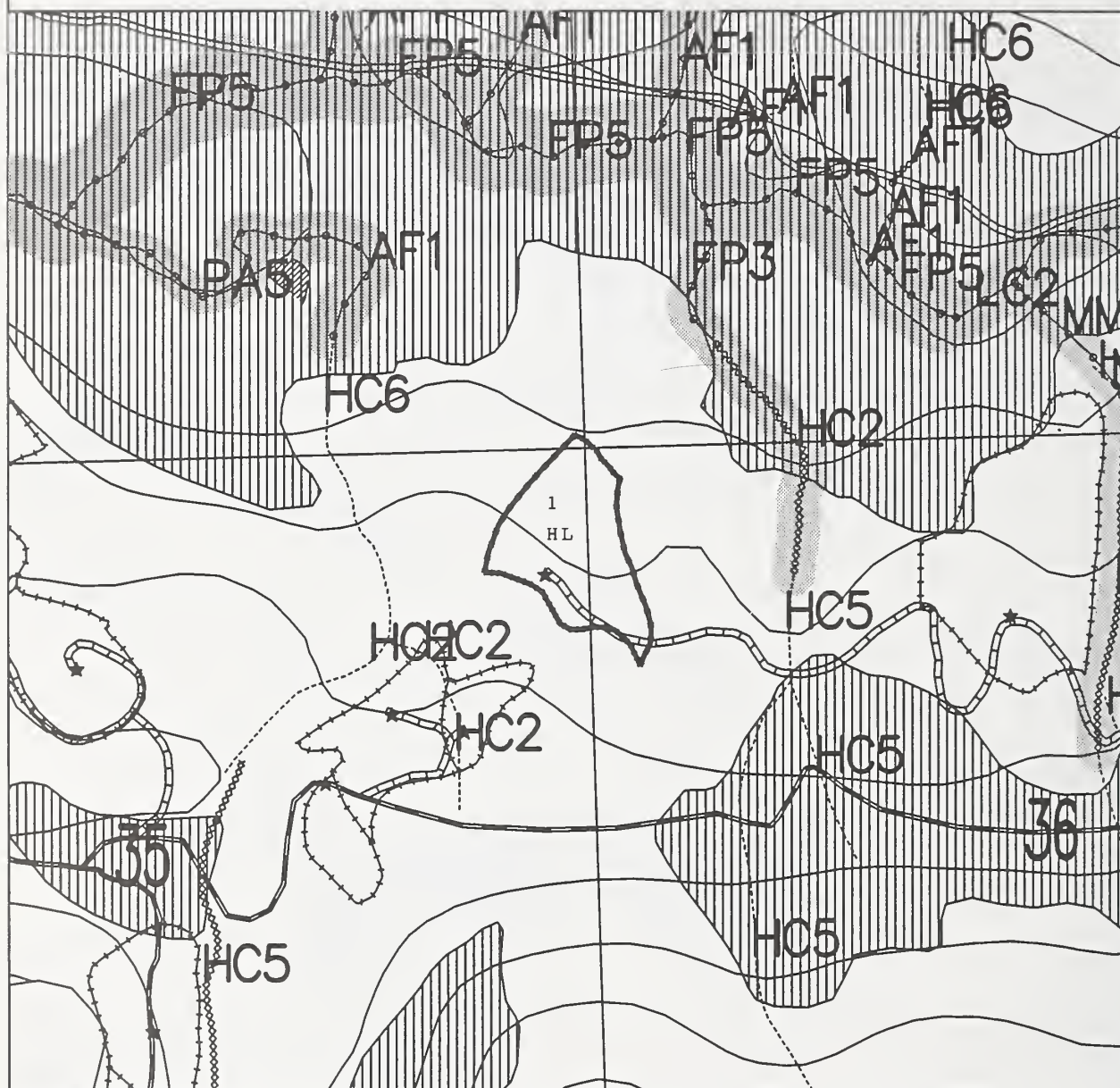
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8094

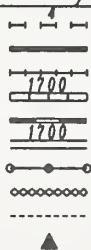
PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 464 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN ALT
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

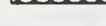
HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8095</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>14</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>439</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 3 acres 800-1200 ft. 11 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 0 acres Very High 14 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 14 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

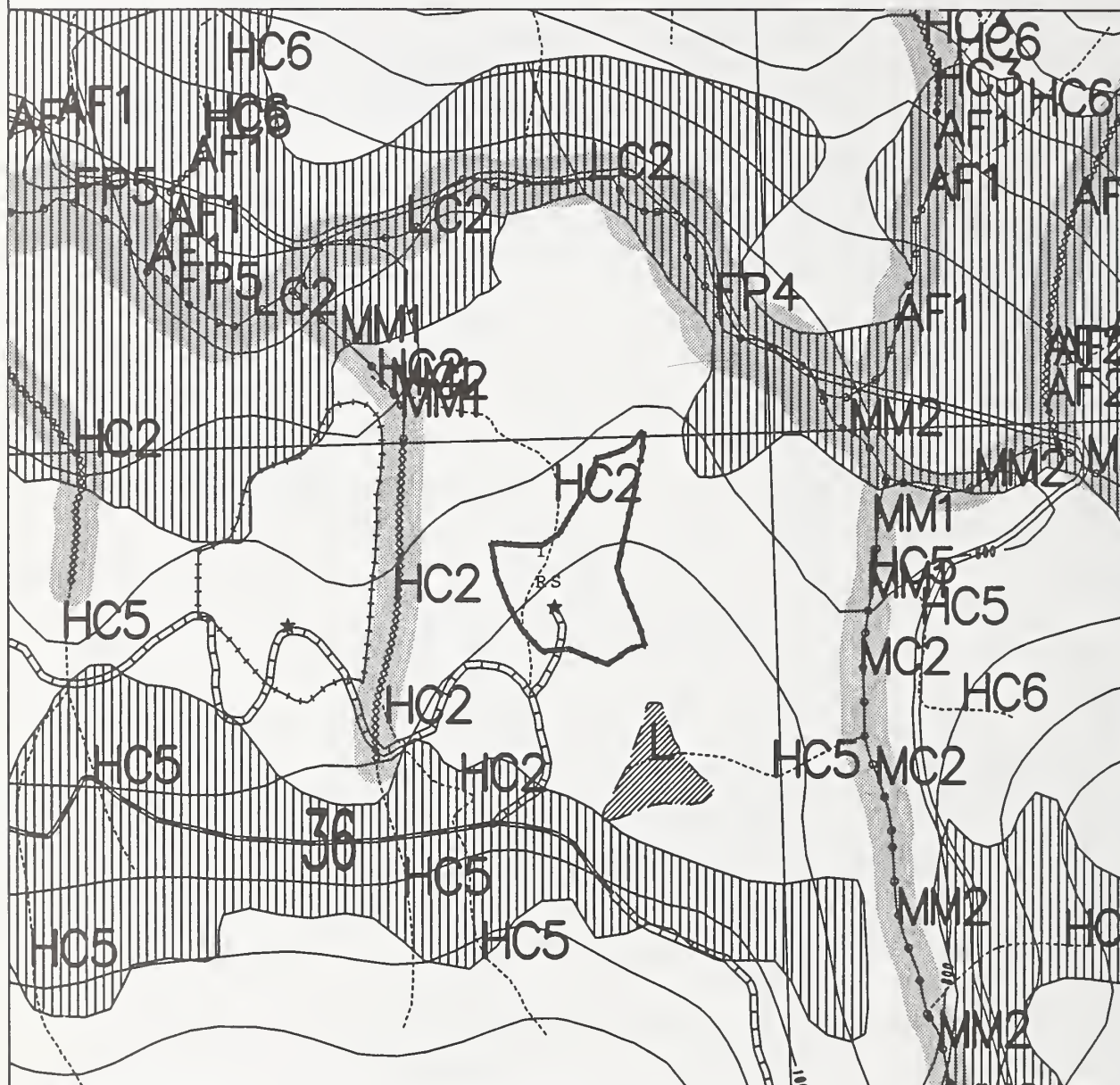
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8095

PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 439 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8096</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>17</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>514</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 10 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 17 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

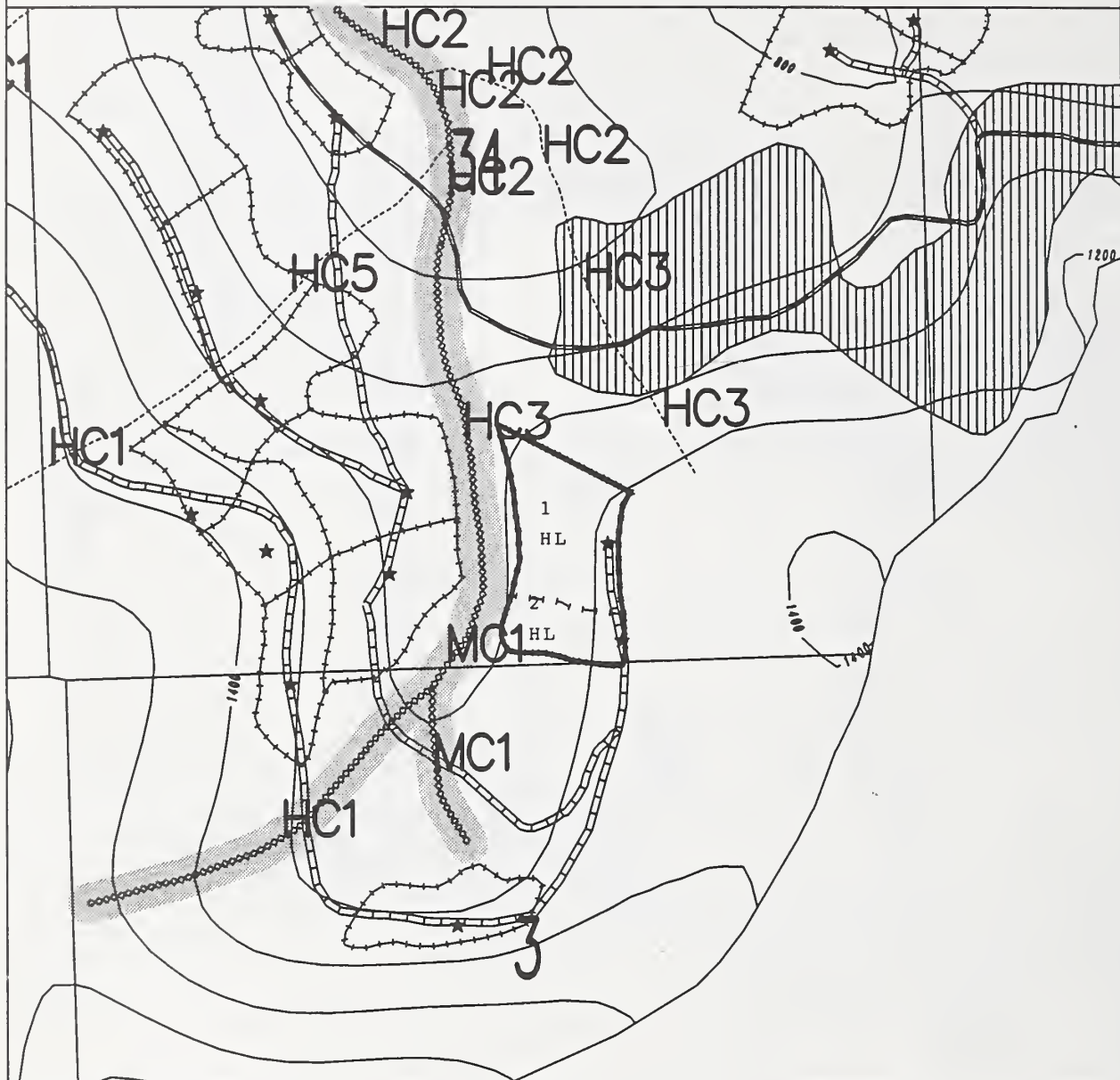
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8096

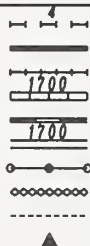
PLANNED HARVEST UNIT MAP

ACRES: 17 VOLUME: 514 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 BACLE TREE (⊕)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8098</u>	No. Settings <u>8</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>84</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2279</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 56 acres VC5 28 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 12 acres 800-1200 ft. 56 acres 1200-1500 ft. 16 acres over 1500 ft. 0 acres
Mass movement index: Low 12 acres Medium 0 acres High 72 acres Very High 0 acres
Cedar 0 Hemlock 83 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 84 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 52 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 38 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

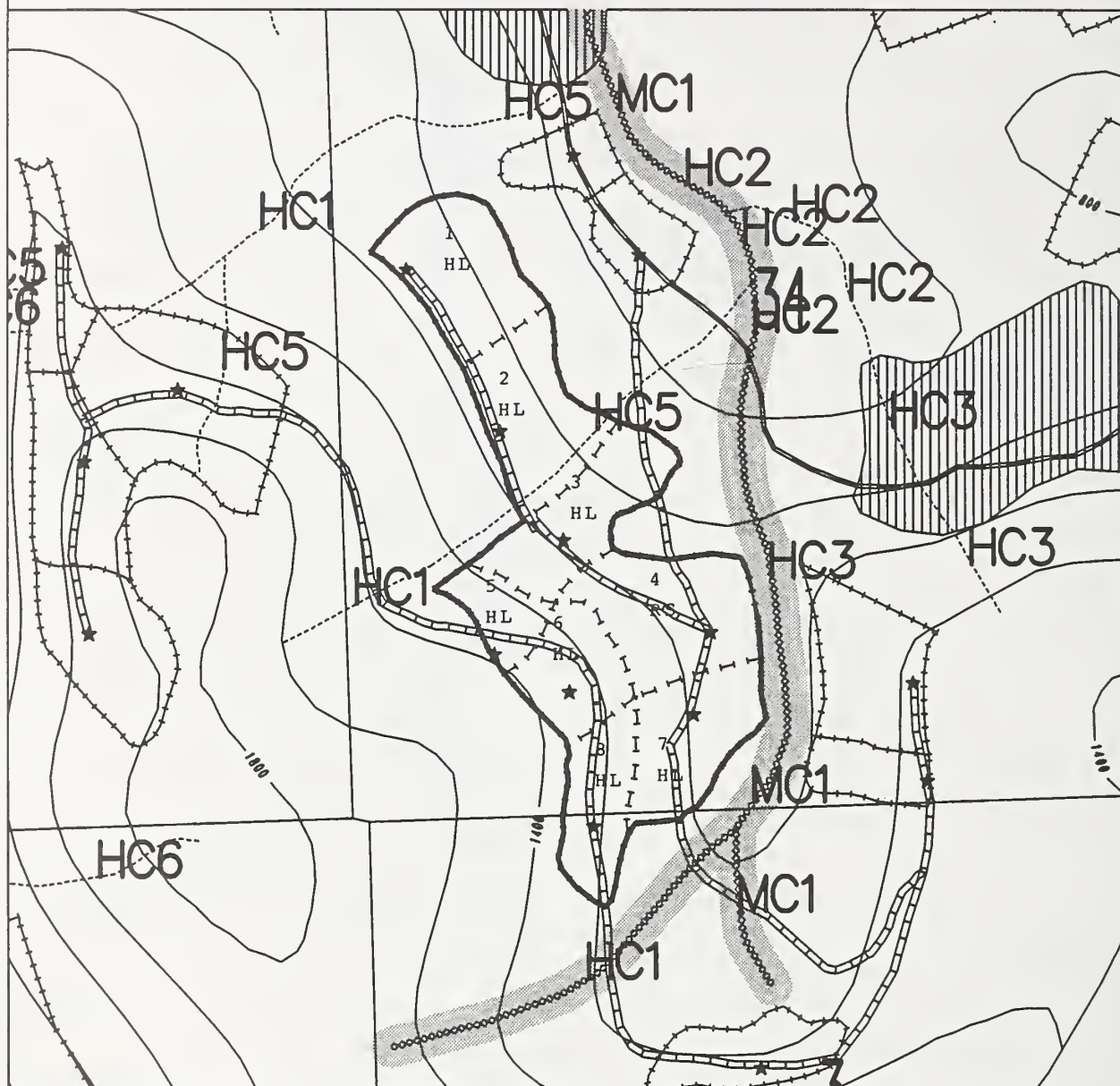
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8098

PLANNED HARVEST UNIT MAP

ACRES: 84 VOLUME: 2279 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (circle with arrow)
 EXISTING CLEARCUT (hatched box)
 SALTWATER AND LAKES (diagonal hatched box)
 CLASS I & II STREAM BUFFER (solid grey box)

LOGGING SYSTEMS:

HL HIGH LEAD
 RS RUNNING SKYLINE

SHELTERWOOD (cross-hatched box)
 HARVEST (diagonal hatched box)
 BEACH BUFFER (solid grey box)



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8100</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>54</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1694</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 54 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 15 acres over 1500 ft. 39 acres
Mass movement index: Low 0 acres Medium 0 acres High 54 acres Very High 0 acres
Cedar 0 Hemlock 51 Mixed 0 Percent Seen 51 Percent Unseen 49 Aspect West

SOILS

This unit has 54 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 39 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

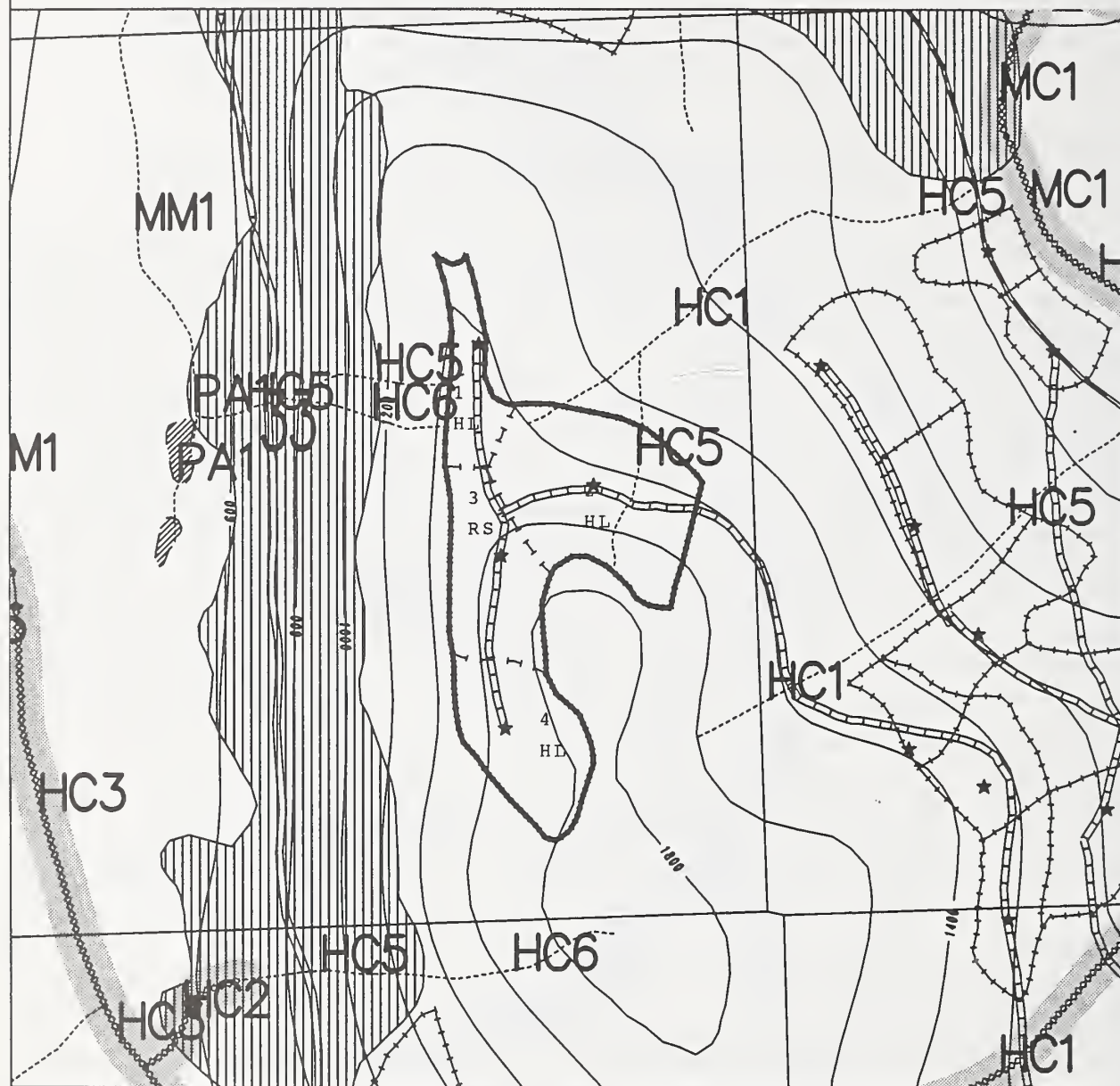
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8100

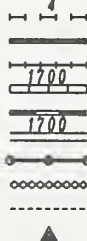
PLANNED HARVEST UNIT MAP

ACRES: 54 VOLUME: 1694 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE ↑

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE



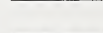
SHELTERWOOD



HARVEST



BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8101</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>18</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>564</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 2 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 14 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 18 Mixed 0 Percent Seen 94 Percent Unseen 6 Aspect North

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

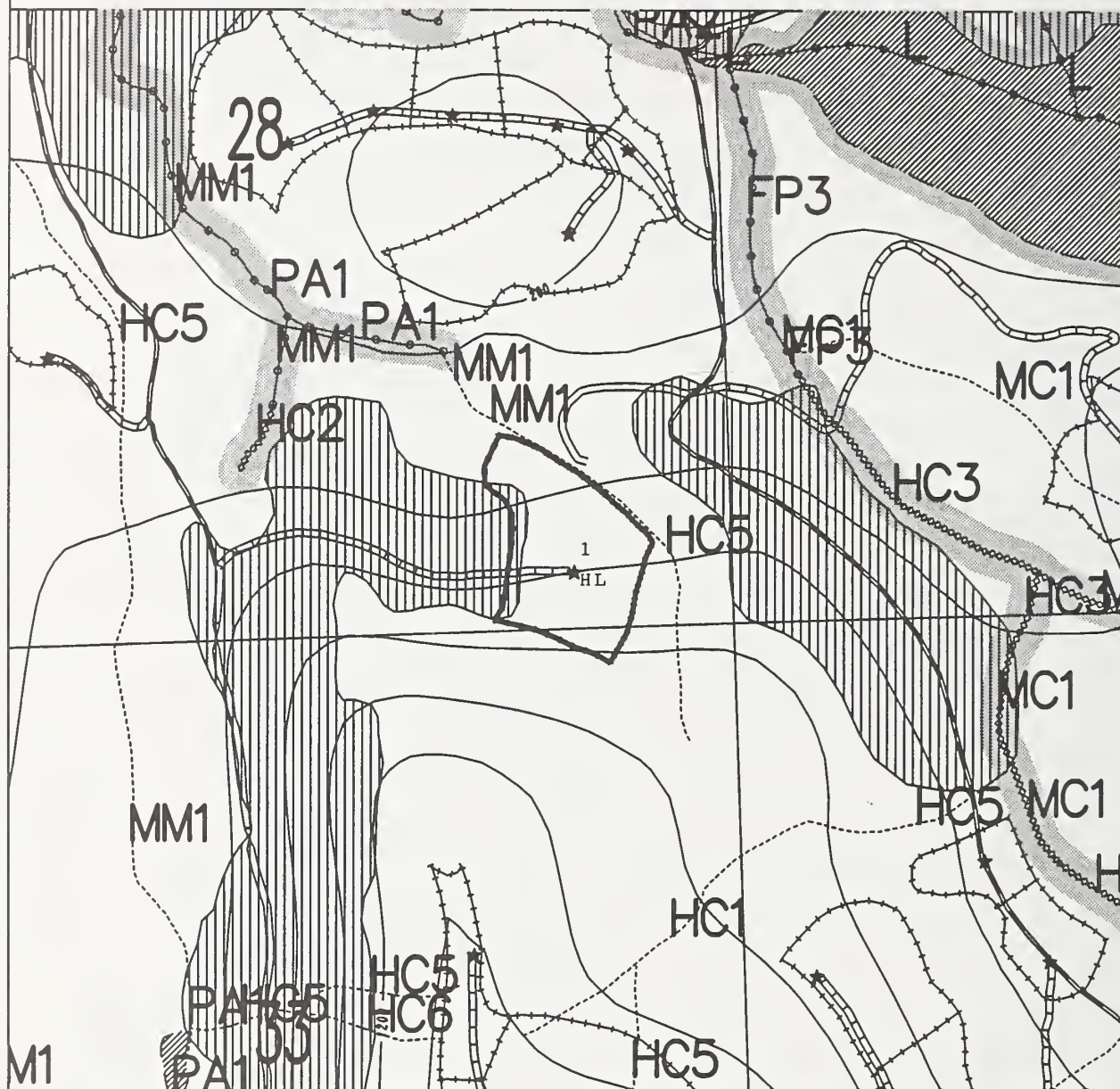
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8101

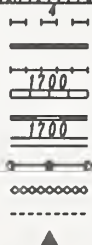
PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 564 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER

July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8102</u>	No. Settings <u>1</u>	Alternatives considered <u>4 5</u>	VQO <u>MM</u>
Planned acres <u>26</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>815</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 26 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 19 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 0 acres High 23 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

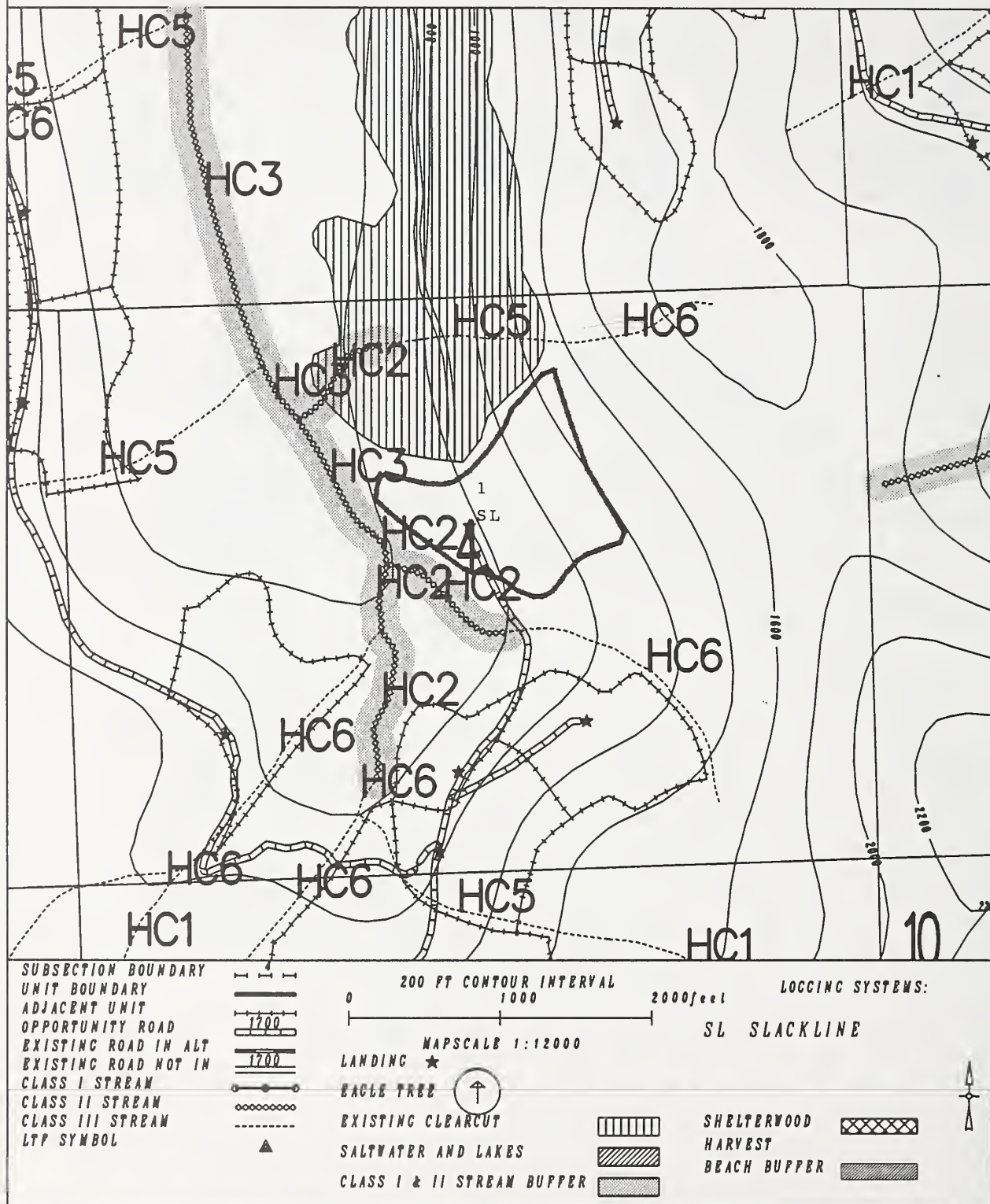
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8102

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 815 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8103</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>22</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>806</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>NME</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 10 acres VC6 12 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 7 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 9 acres Medium 0 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 12 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

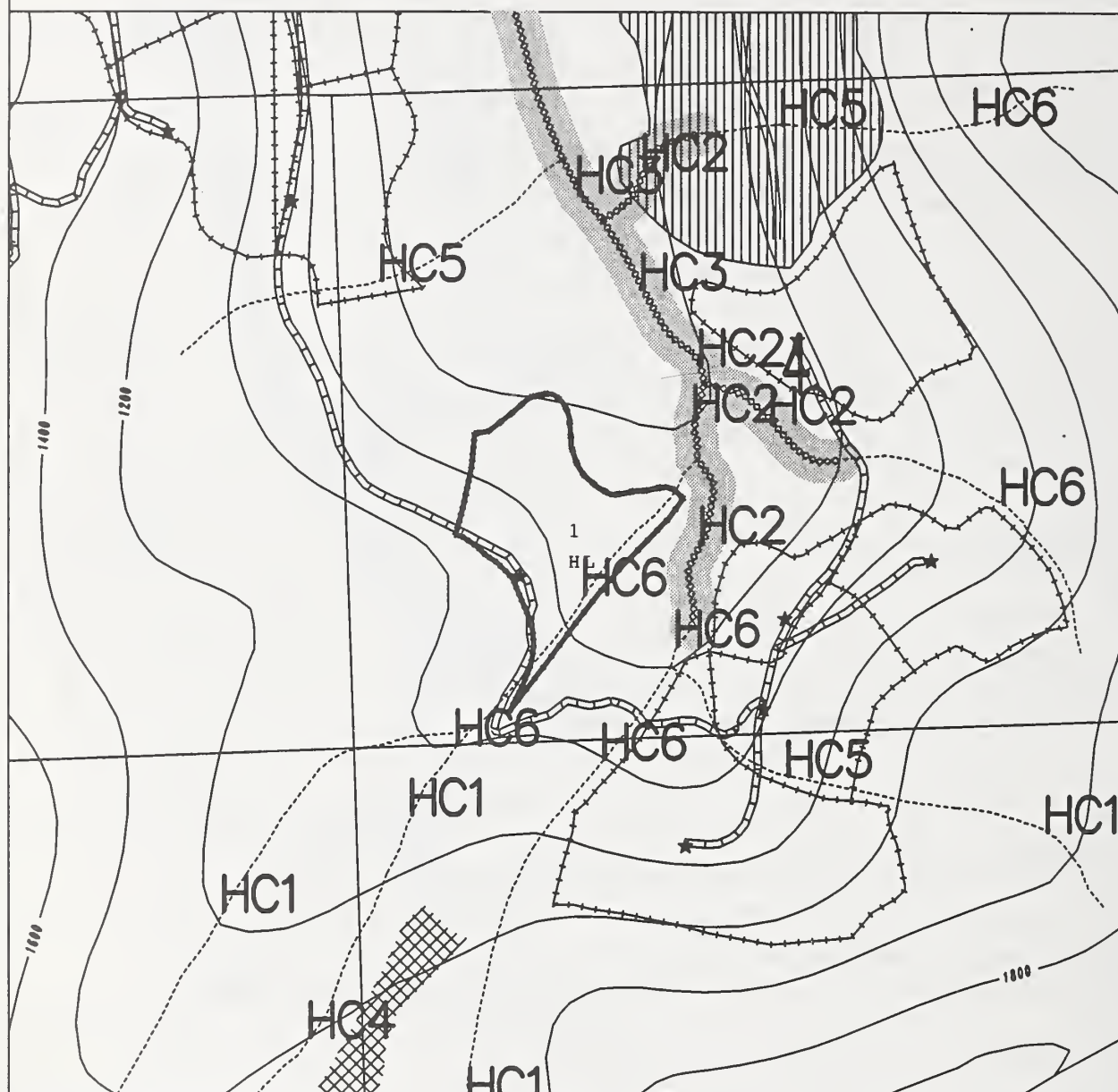
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8103

PLANNED HARVEST UNIT MAP

ACRES: 22 VOLUME: 806 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8104</u>	No. Settings <u>6</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>132</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>4008</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 38 acres VC5 94 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 54 acres 800-1200 ft. 58 acres 1200-1500 ft. 21 acres over 1500 ft. 5 acres
Mass movement index: Low 27 acres Medium 0 acres High 103 acres Very High 0 acres
Cedar 0 Hemlock 131 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 132 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 20 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 6 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8104

PLANNED HARVEST UNIT MAP

ACRES: 132

VOLUME: 4008

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-60

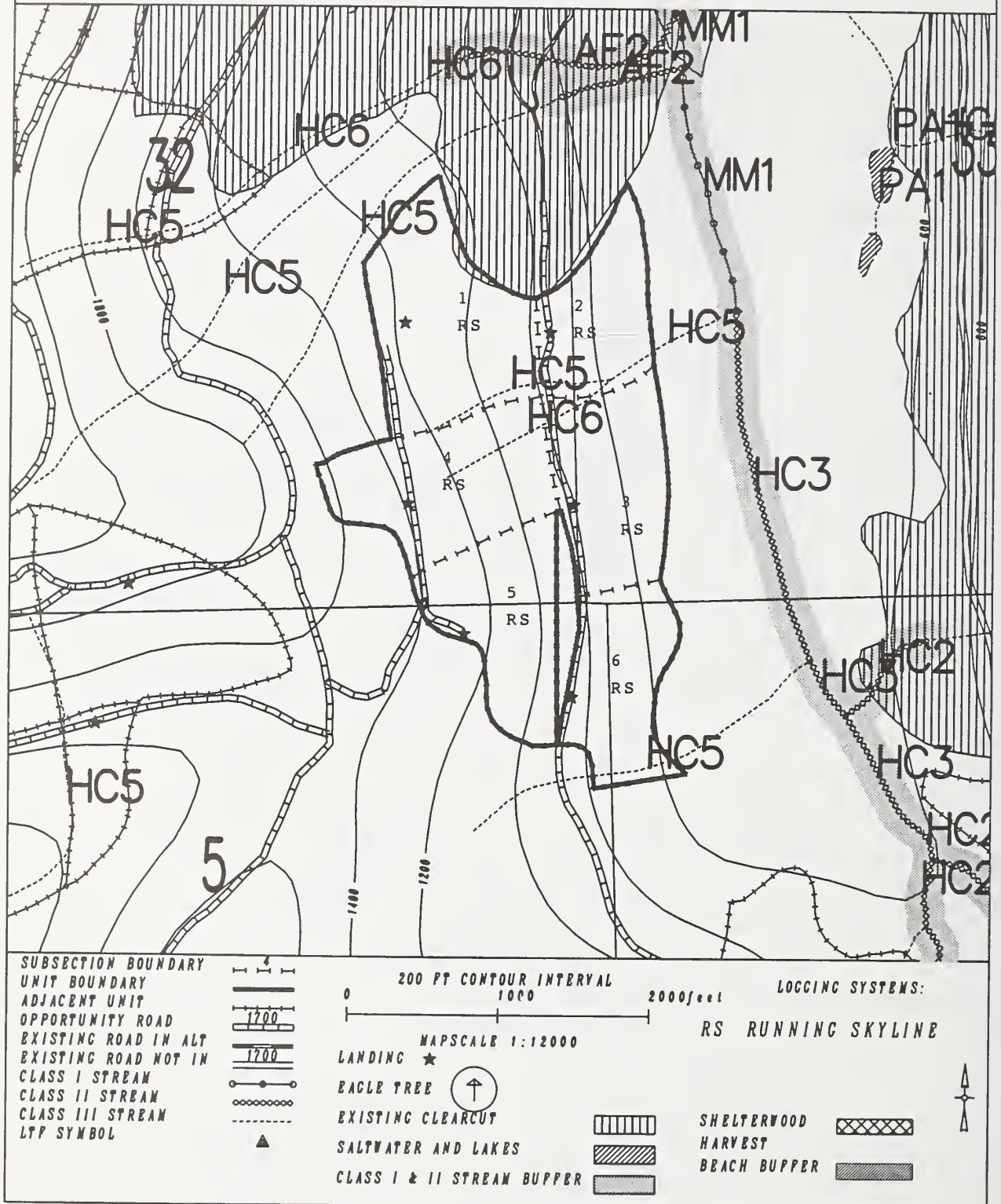
LANDNET INFO

TOWNSHIP

71S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8105</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1047</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 24 acres 1200-1500 ft. 10 acres over 1500 ft. 0 acres
Mass movement index: Low 21 acres Medium 0 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 2 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 14 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8105

PLANNED HARVEST UNIT MAP

ACRES: 35VOLUME: 1047

MBP

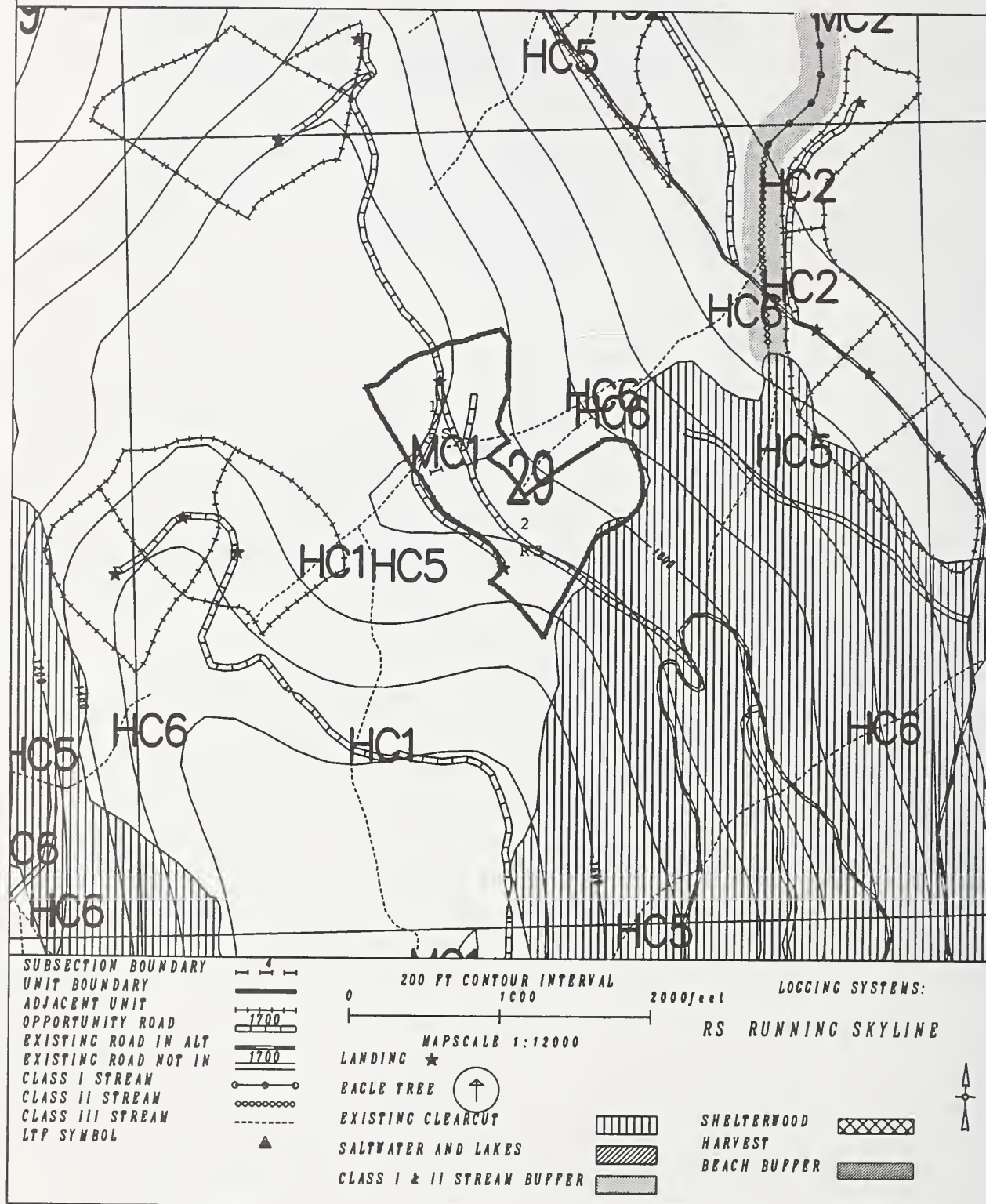
QUAD(s): KTNC5QUARTER QUAD(s): NWN/NWSPHOTO NUM. : 1179-63

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8106</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>43</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1350</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 43 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 0 acres 1200-1500 ft. 17 acres over 1500 ft. 25 acres
Mass movement index: Low 32 acres Medium 0 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 42 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 38 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8106

NORTH REYILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 43VOLUME: 1350

MBP

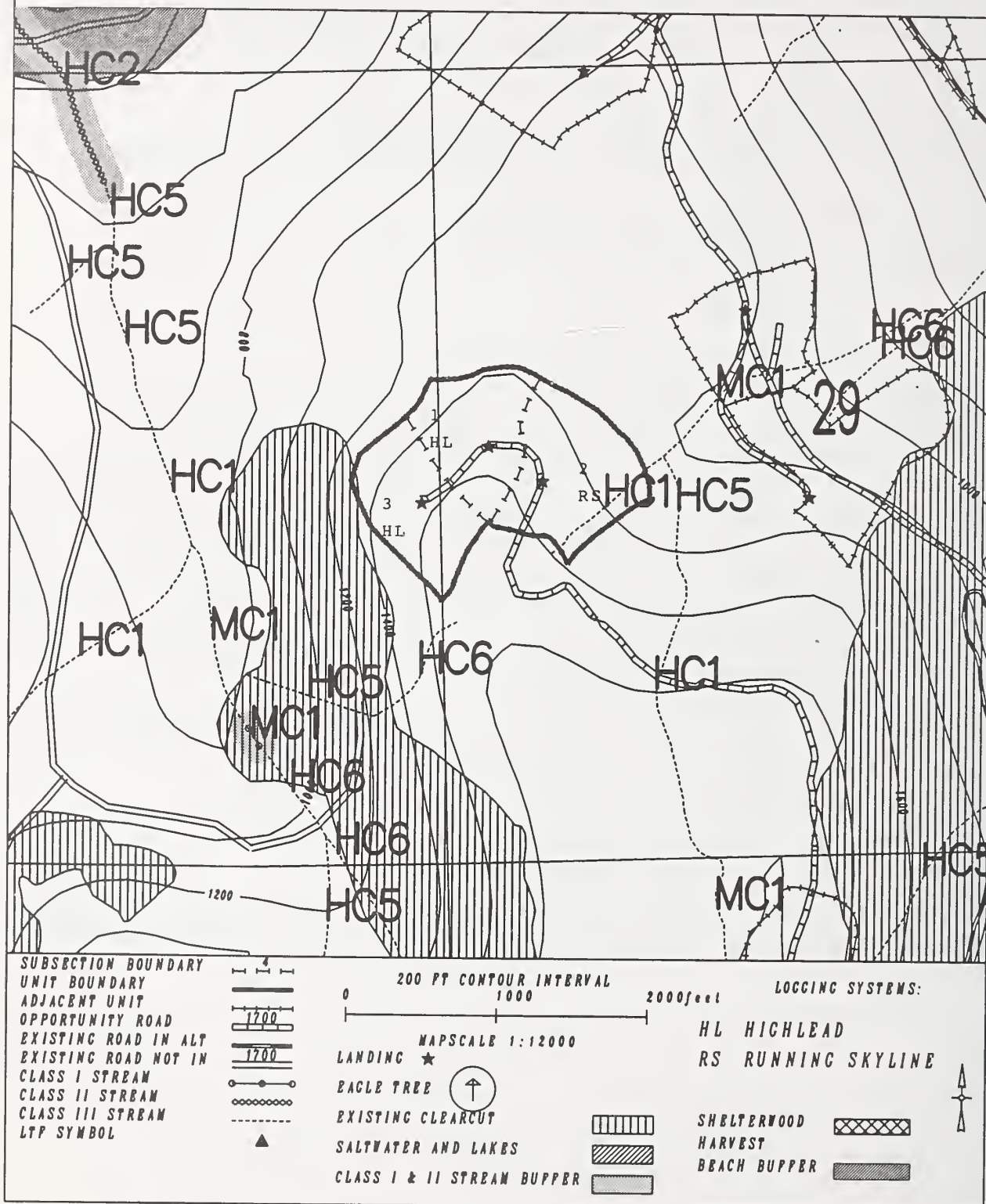
QUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM. : 1179-62

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design at the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8107</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>31</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>973</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 19 acres 1200-1500 ft. 10 acres over 1500 ft. 0 acres
Mass movement index: Low 17 acres Medium 0 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 31 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 23 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

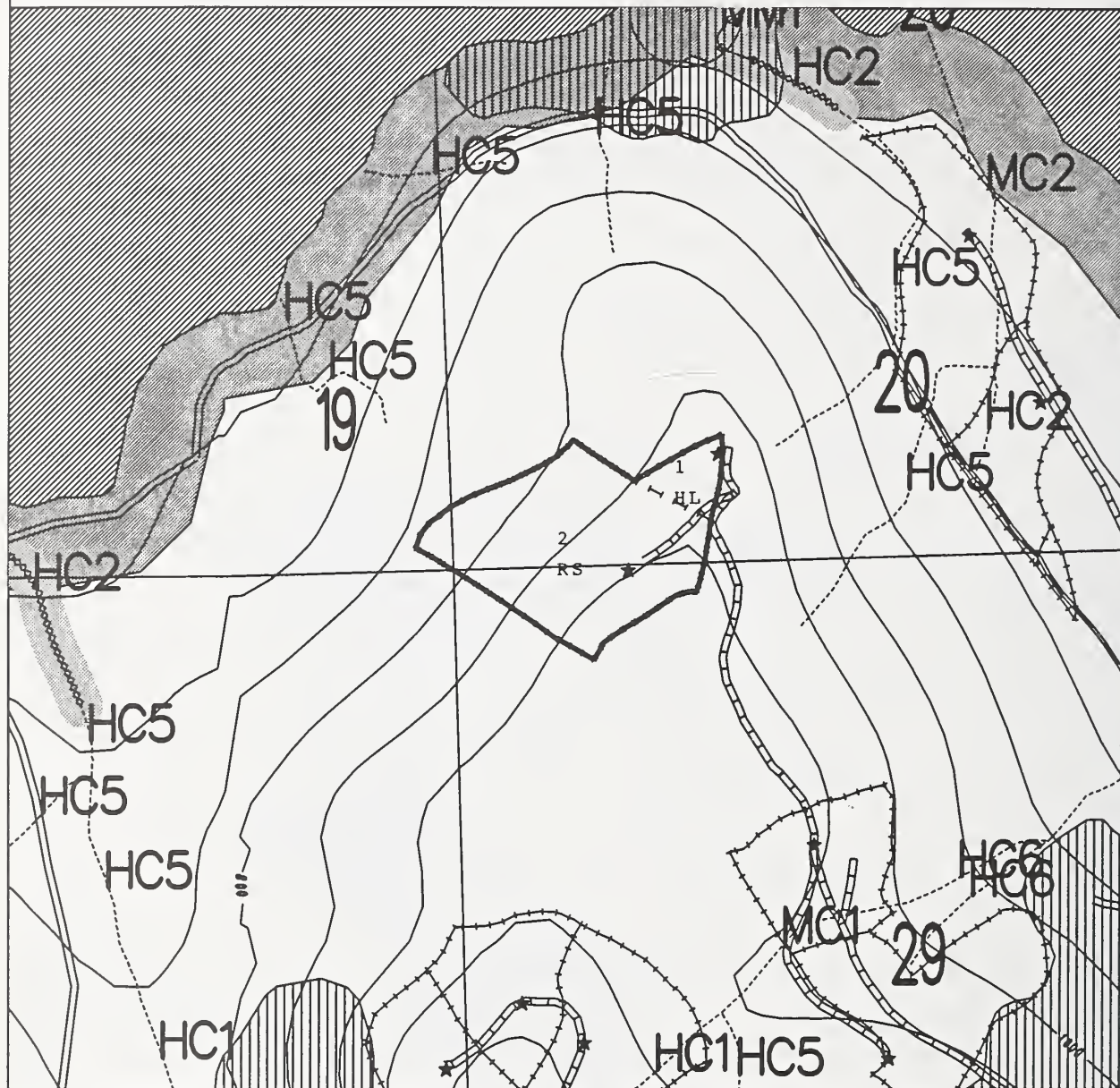
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8107

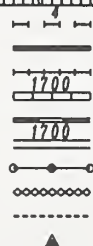
PLANNED HARVEST UNIT MAP

ACRES: 31 VOLUME: 973 MDP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-63 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8108</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>34</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1153</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 25 acres VC6 9 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 34 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 29 acres Medium 0 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 34 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit contains 27 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

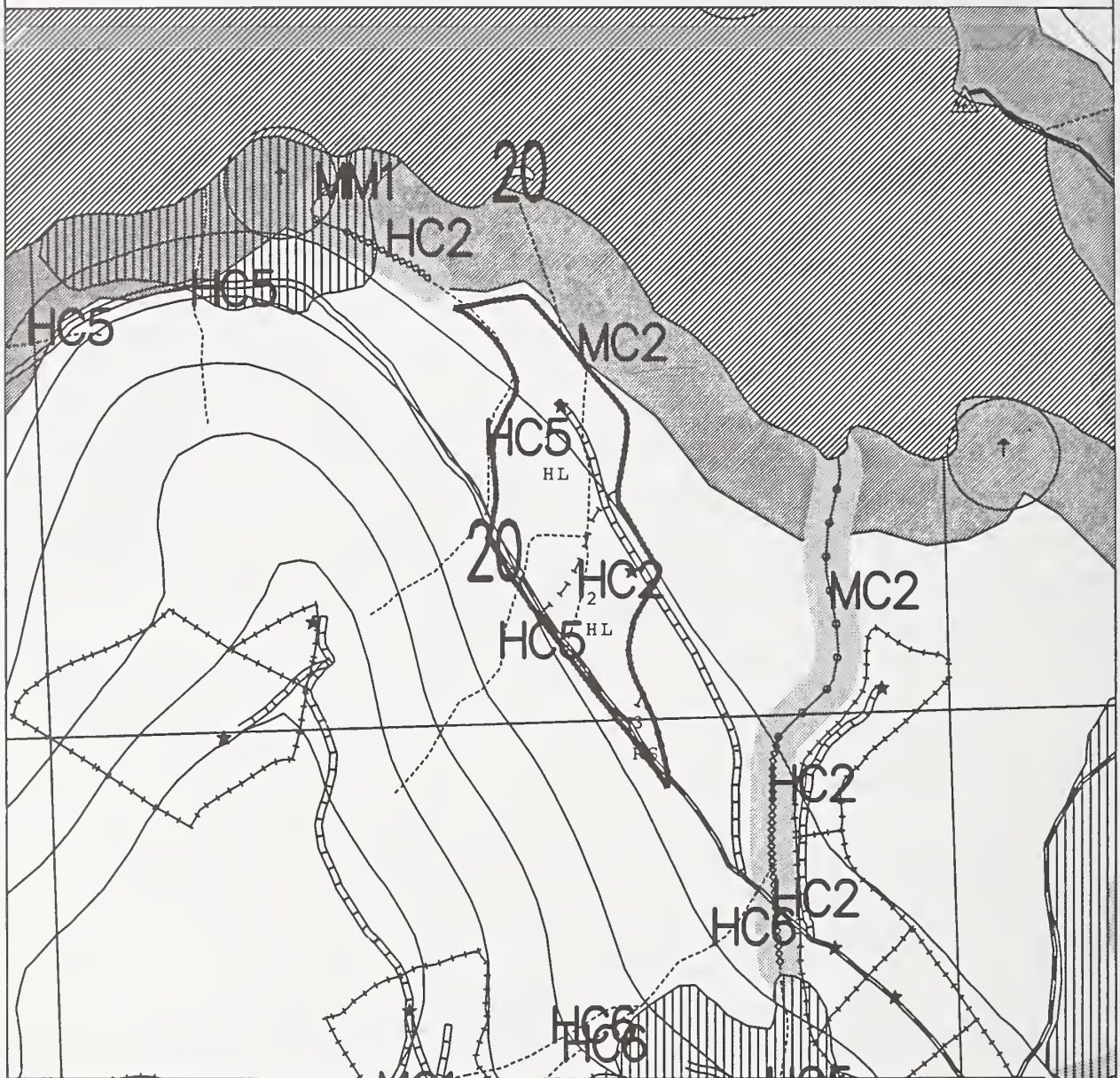
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8108

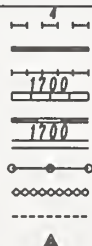
PLANNED HARVEST UNIT MAP

ACRES: 34 VOLUME: 1153 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-63 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (circle with cross)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HL HIGHLEAD
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUPPER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8109</u>	No. Settings <u>3</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>43</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1349</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 43 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 27 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 0 acres Very High 42 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 43 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit contains 42 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 40 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

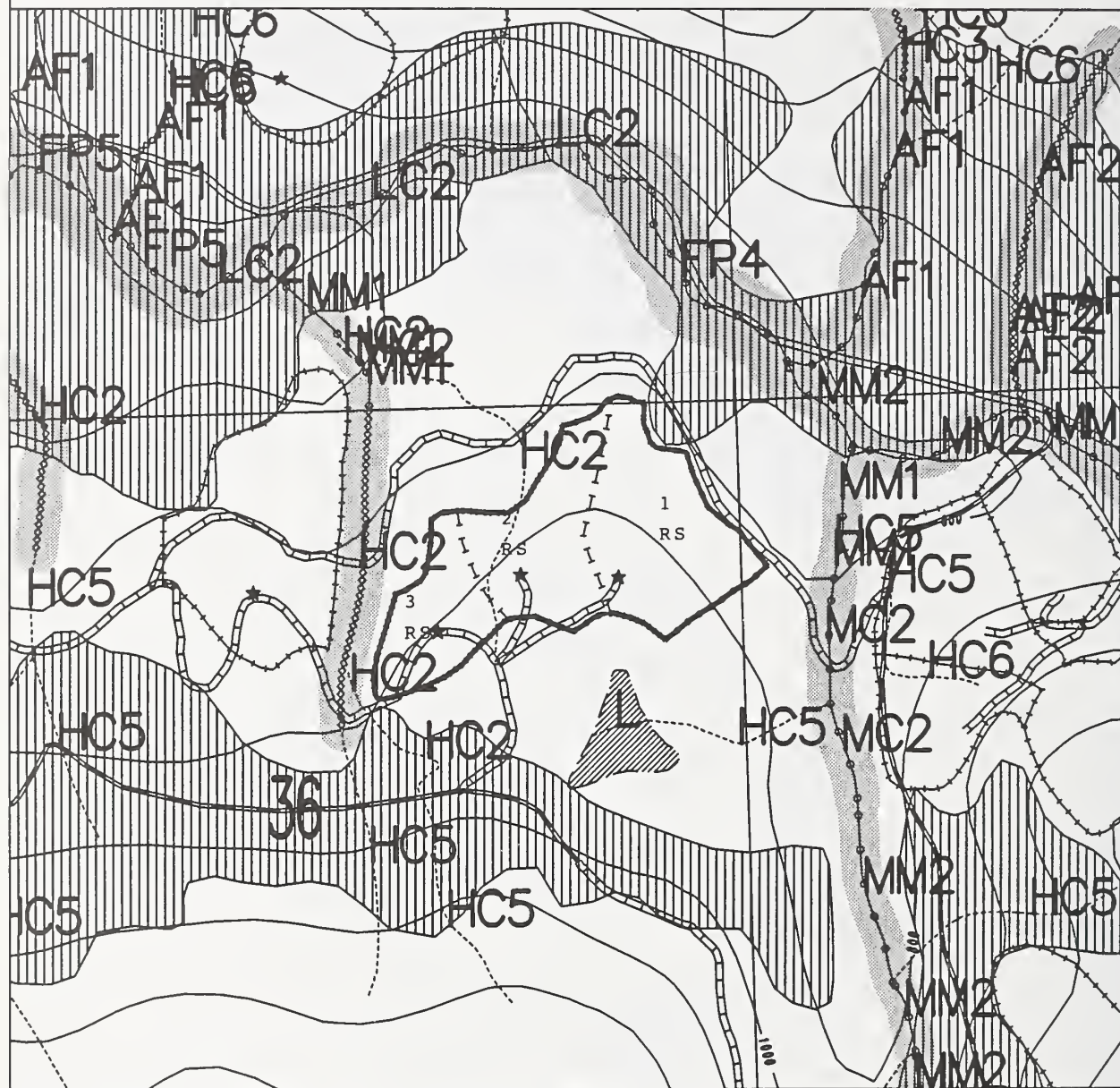
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8109

PLANNED HARVEST UNIT MAP

ACRES: 43 VOLUME: 1349 MDP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8110</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>40</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1448</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>ROC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 20 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 31 acres 800-1200 ft. 0 acres 1200-1500 ft. 7 acres over 1500 ft. 2 acres
Mass movement index: Low 40 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 2 Mixed 36 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 1 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

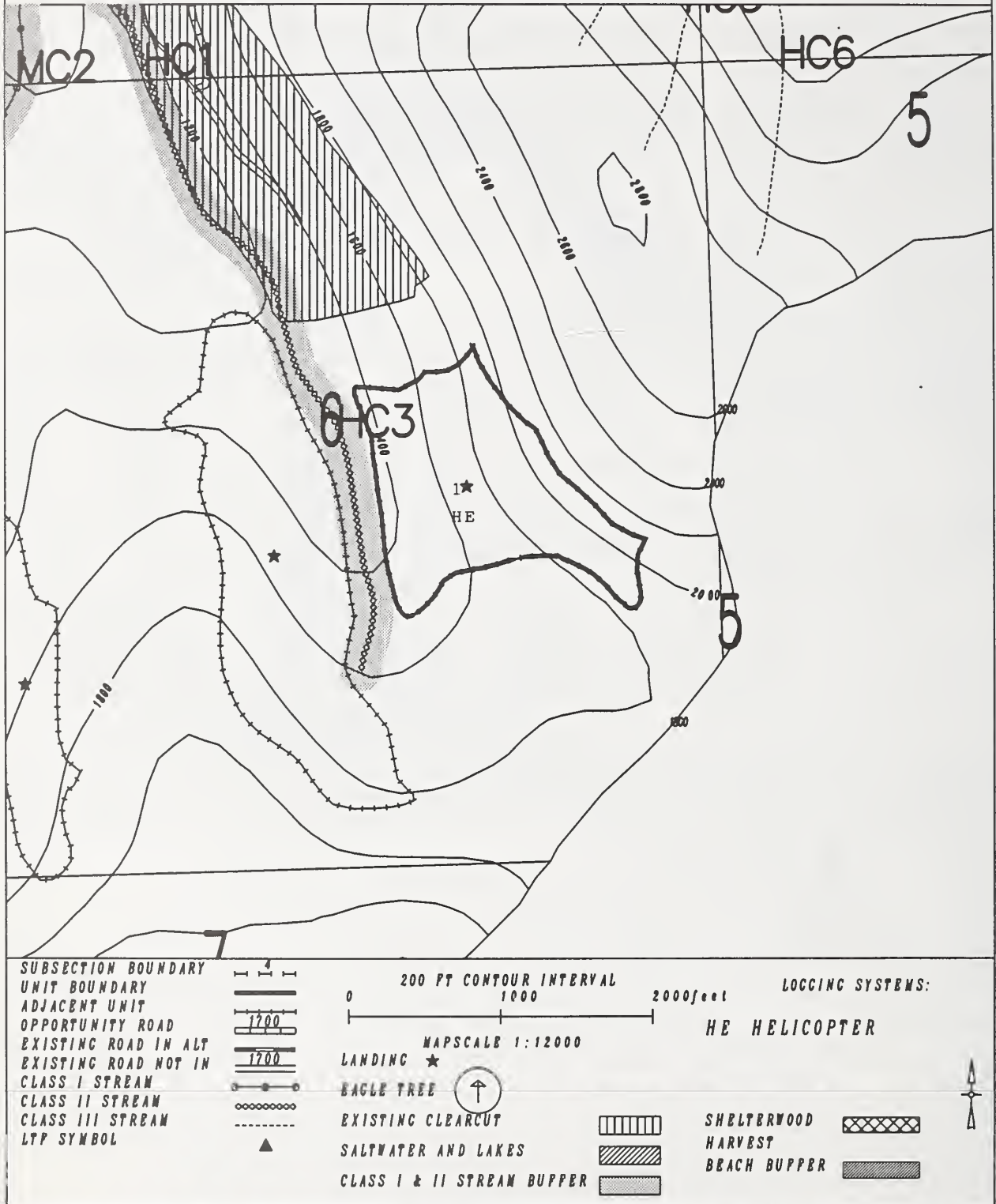
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8110

PLANNED HARVEST UNIT MAP

ACRES: 40 VOLUME: 1448 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 72S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8111</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>14</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>362</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 12 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 14 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

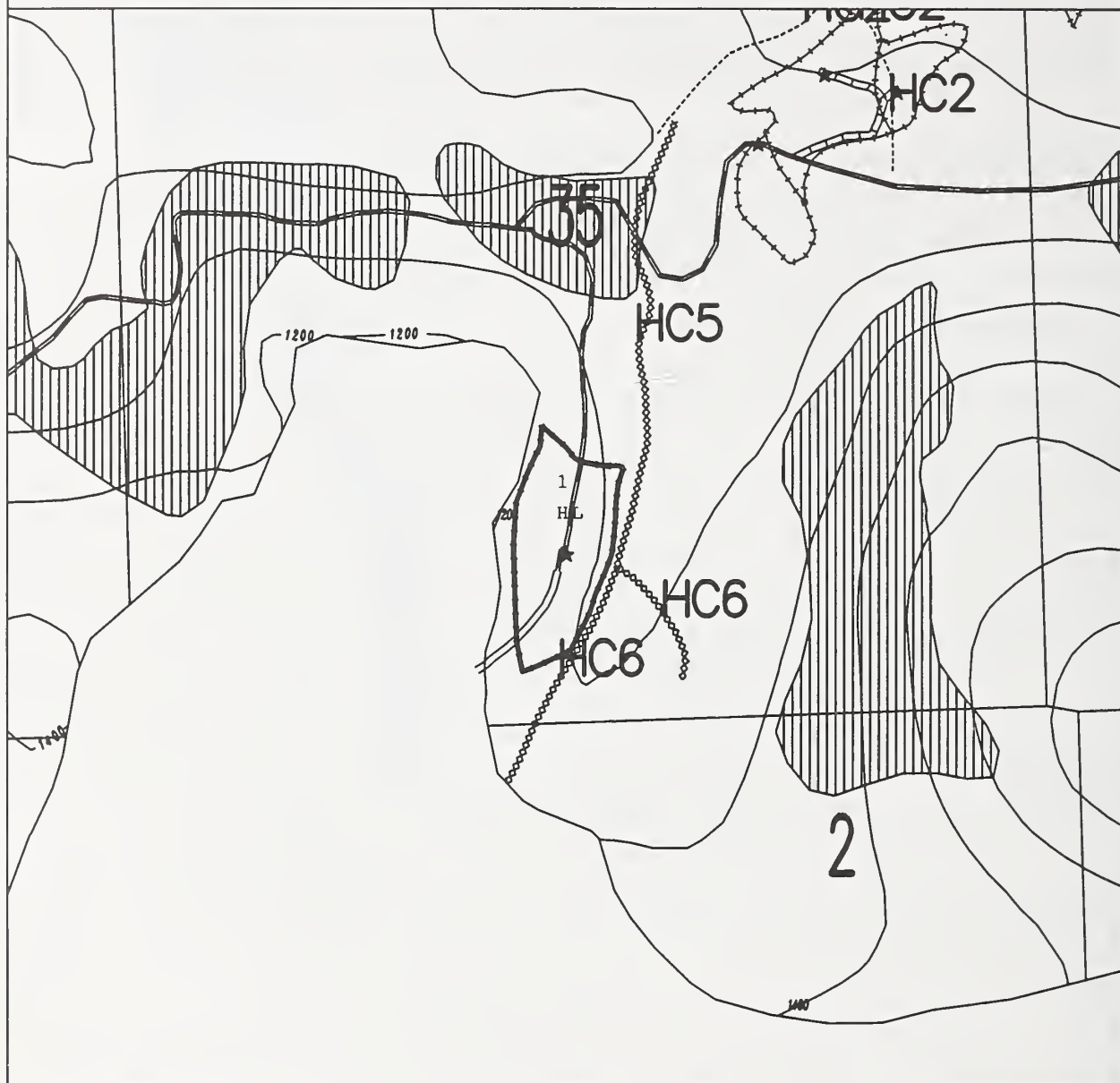
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8111

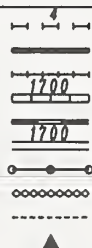
PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 362 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE



EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8112</u>	No. Settings <u>8</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>146</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>4427</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>NME</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 66 acres VC5 52 acres VC6 28 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 71 acres 1200-1500 ft. 40 acres over 1500 ft. 3 acres
Mass movement index: Low 62 acres Medium 0 acres High 84 acres Very High 0 acres
Cedar 0 Hemlock 116 Mixed 20 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 146 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 38 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 52 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

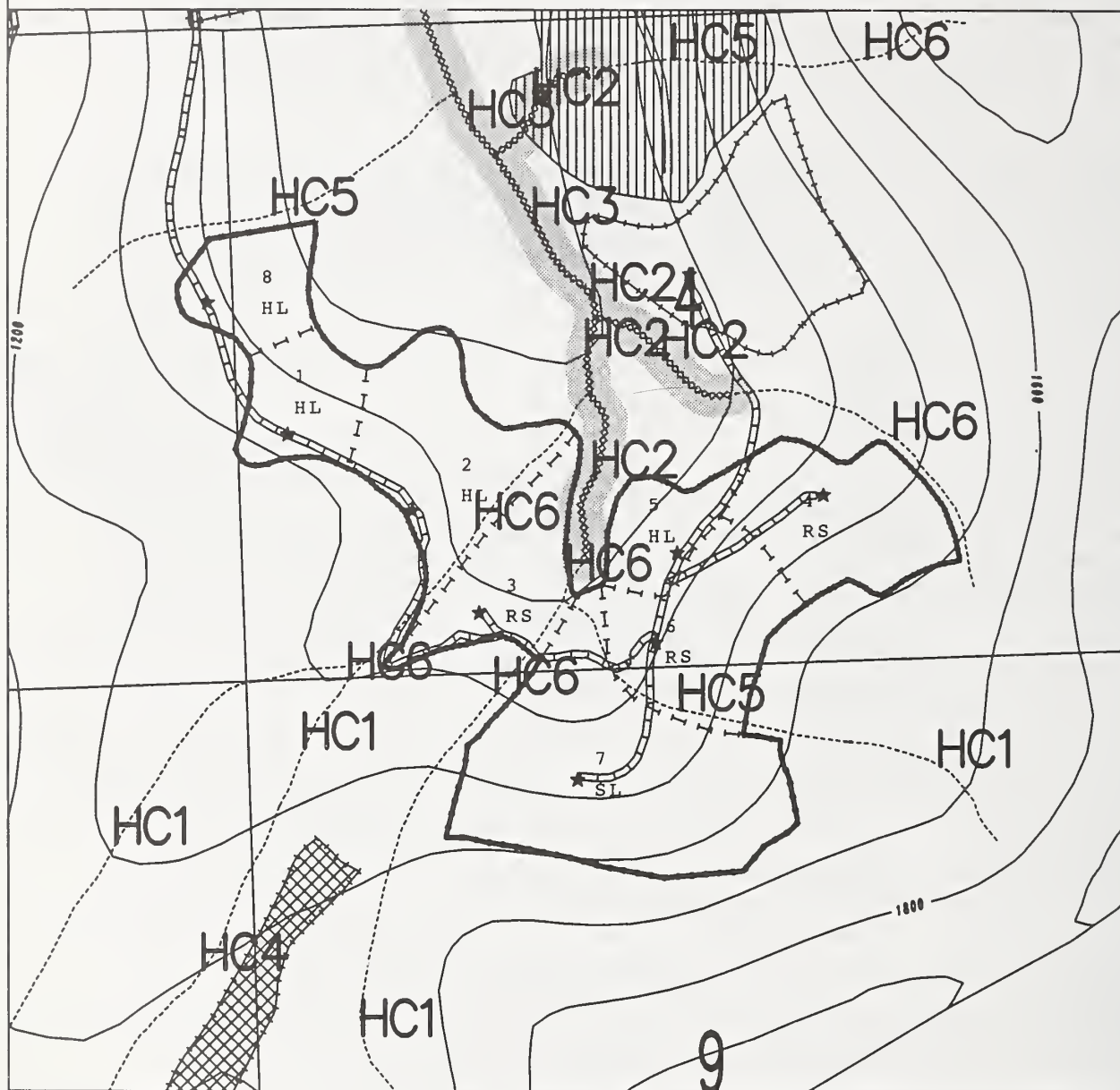
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8112

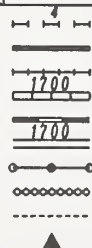
PLANNED HARVEST UNIT MAP

ACRES: 146 VOLUME: 4427 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 72S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8113</u>	No. Settings <u>5</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>107</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3031</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 49 acres VC5 58 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 38 acres 800-1200 ft. 39 acres 1200-1500 ft. 20 acres over 1500 ft. 10 acres
Mass movement index: Low 19 acres Medium 0 acres High 88 acres Very High 0 acres
Cedar 0 Hemlock 104 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 105 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

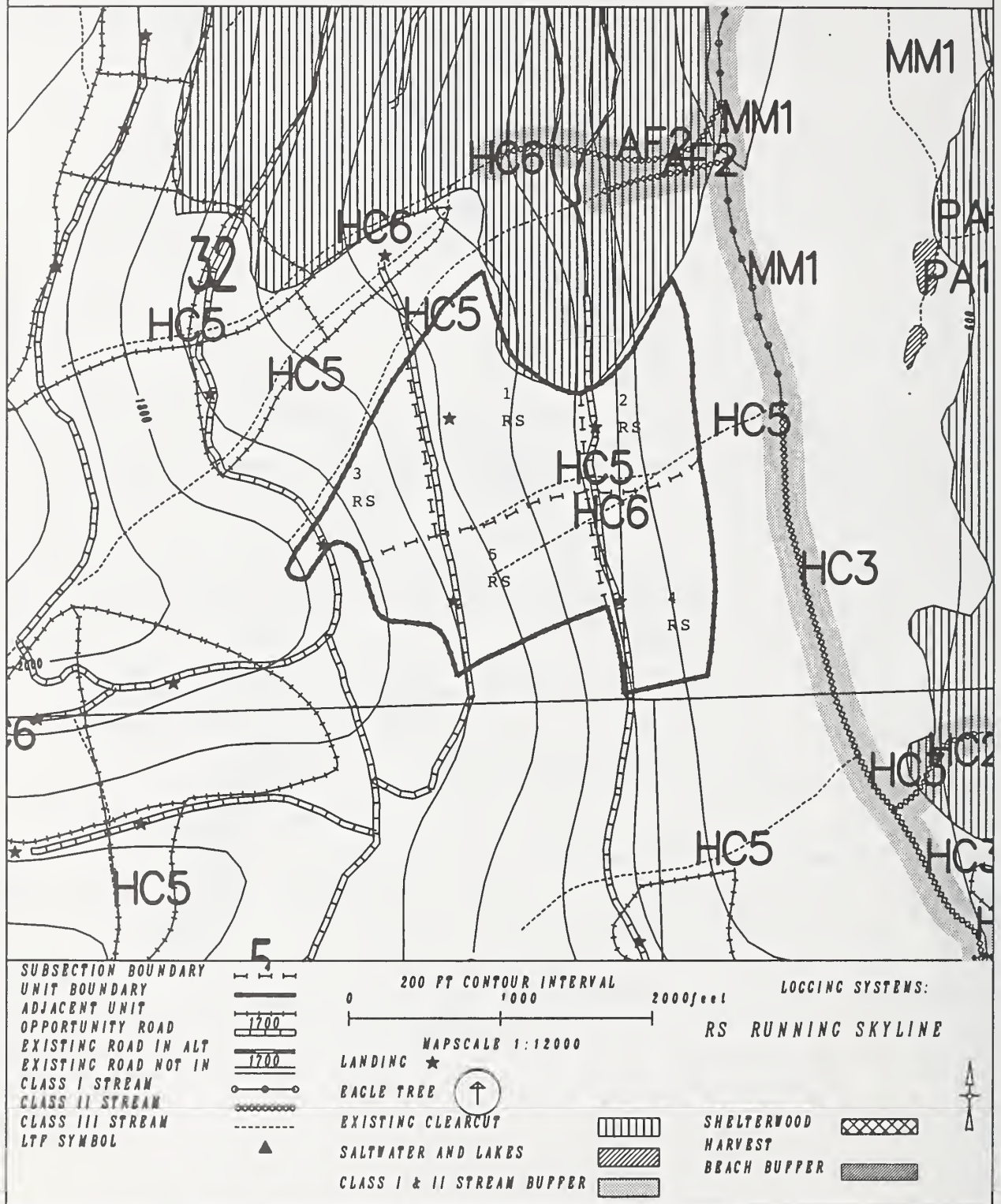
There are no geological mitigation measures anticipated for this unit.

VCU: 7380 UNIT NUMBER: 8113

PLANNED HARVEST UNIT MAP

ACRES: 107 VOLUME: 3031 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-60 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8114</u>	No. Settings <u>6</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>81</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2574</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 51 acres VC6 14 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 4 acres 1200-1500 ft. 18 acres over 1500 ft. 58 acres
Mass movement index: Low 27 acres Medium 0 acres High 54 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 67 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 80 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 58 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8114

PLANNED HARVEST UNIT MAP

ACRES: 81VOLUME: 2574

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWS

PHOTO NUM.:

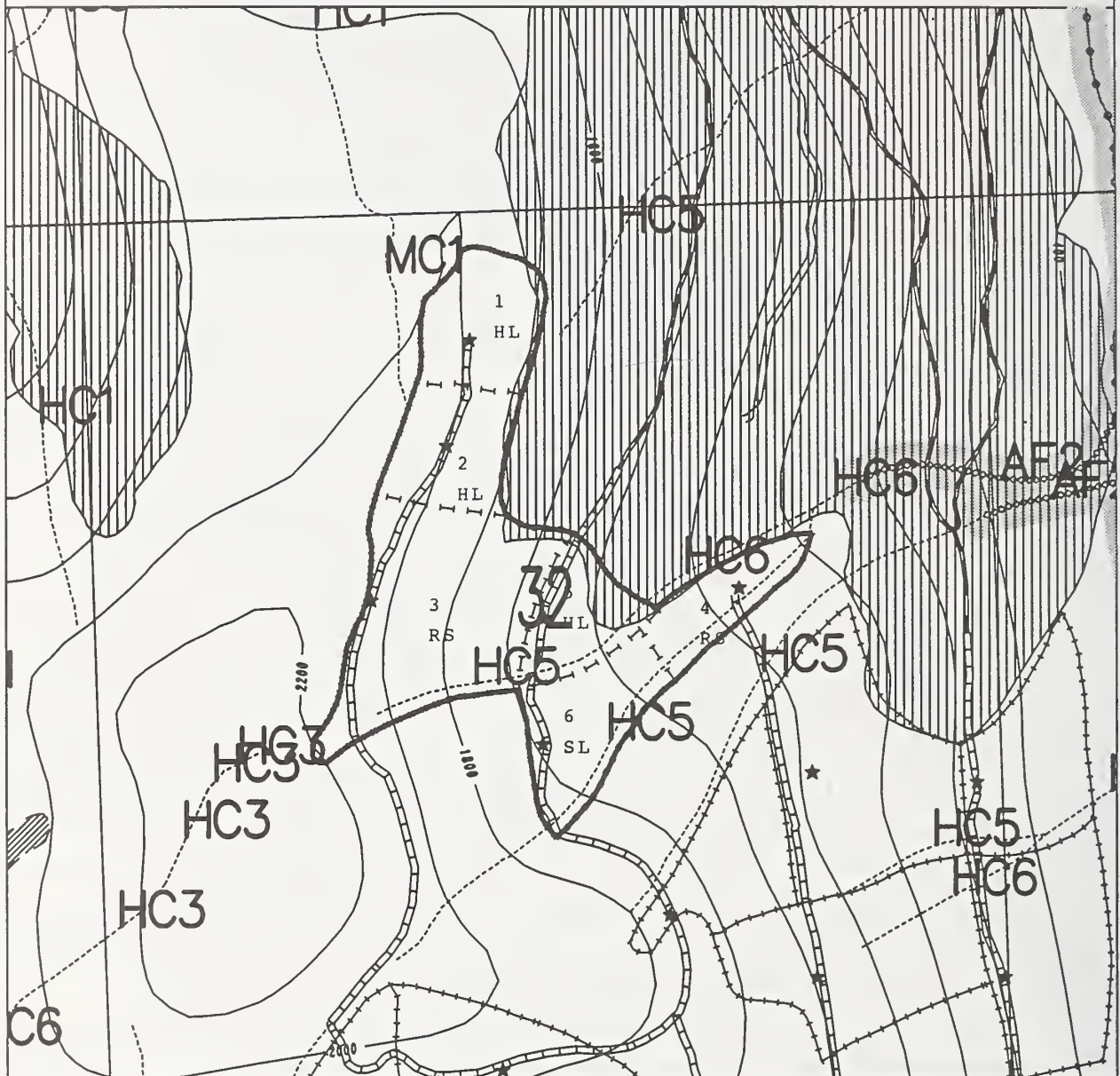
1179-61

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

RS RUNNING SKYLINE

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8115</u>	No. Settings <u>5</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>81</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2452</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-62</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 14 acres VC5 67 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 47 acres 1200-1500 ft. 22 acres over 1500 ft. 4 acres
Mass movement index: Low 52 acres Medium 0 acres High 29 acres Very High 0 acres
Cedar 0 Hemlock 79 Mixed 2 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 80 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilverly soils. Field verification required to determine suitability.(BMP13.19)
This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 44 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the MARGARET COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8115

PLANNED HARVEST UNIT MAP

ACRES: 81

VOLUME: 2452

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN/NWS

PHOTO NUM.:

1179-63

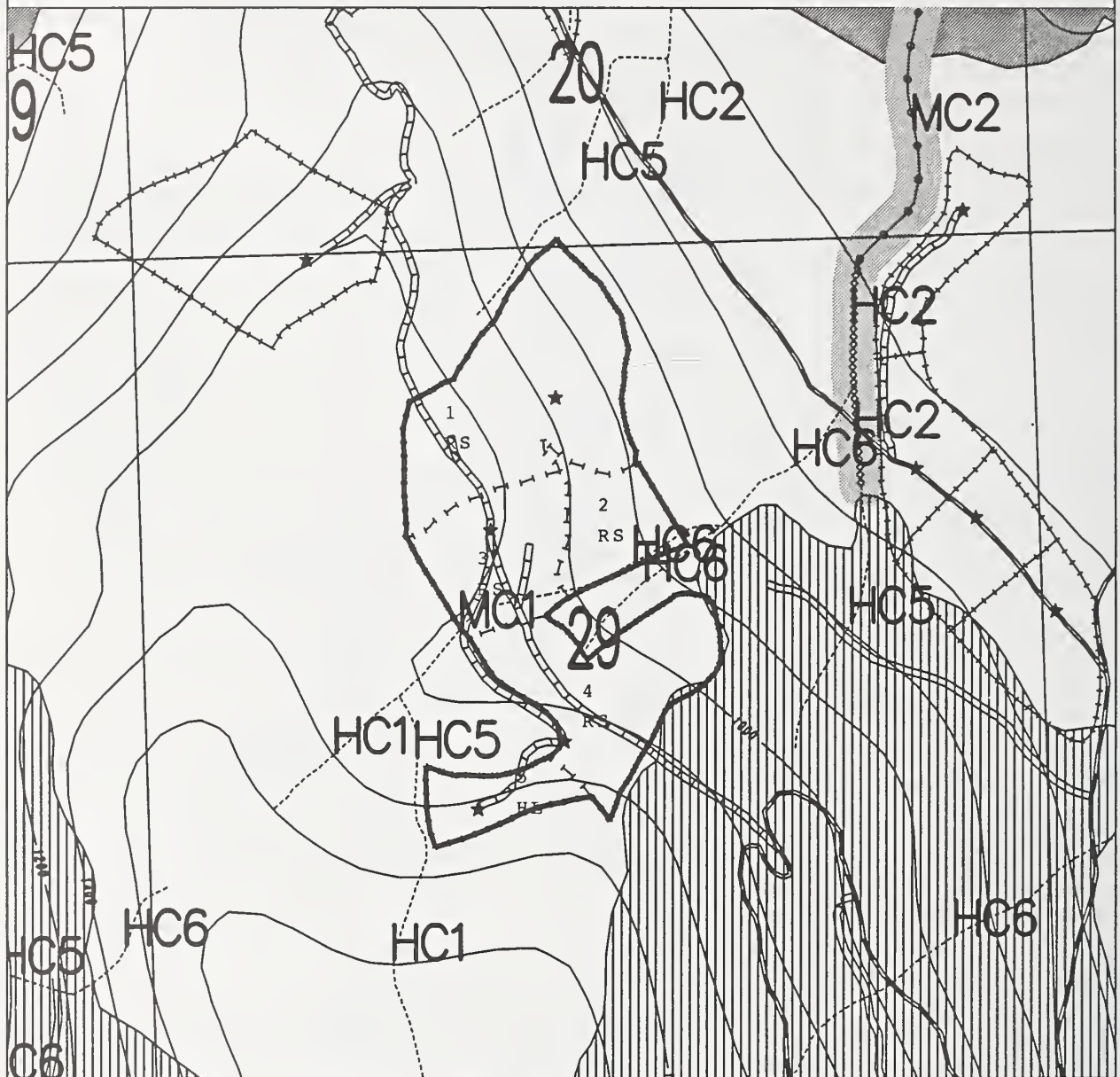
LANDNET INFO

TOWNSHIP

71S

RANGR 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUPPER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8116</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>28</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>878</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 28 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 16 acres 1200-1500 ft. 10 acres over 1500 ft. 0 acres
Mass movement index: Low 15 acres Medium 0 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 28 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 23 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380

UNIT NUMBER: 8116

PLANNED HARVEST UNIT MAP

ACRES: 28

VOLUME: 878

MBP

QUAD(s): KTNCS

QUARTER QUAD(s): NWN

PHOTO NUM.: 1179-63

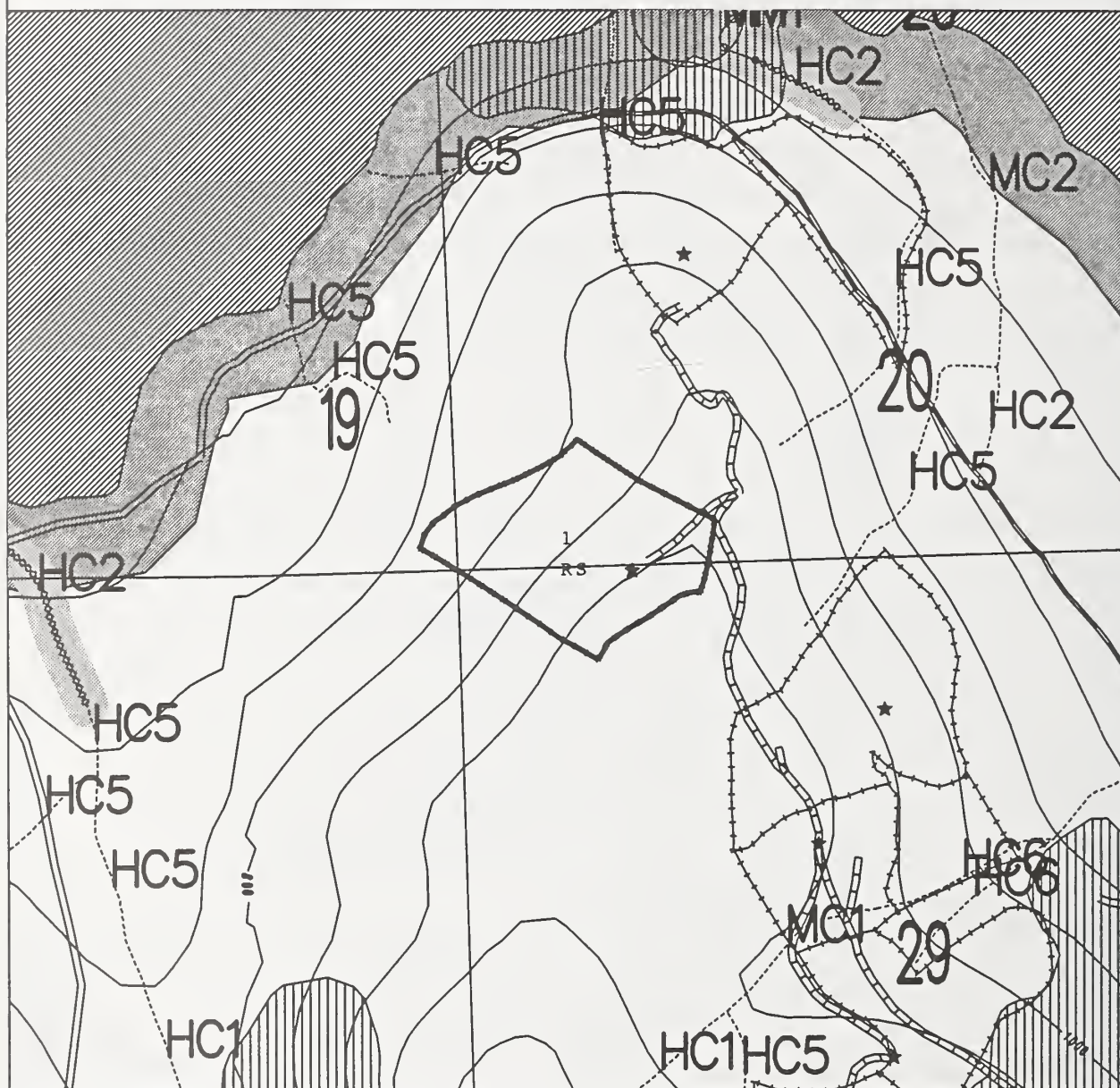
LANDNET INFO

TOWNSHIP

71S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



RUNNING SKYLINE



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8117</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>34</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1068</u>		Mgmt Area <u>K32</u>	VCU <u>7380</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Plant Series <u>WDC</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-63</u>	Forest type <u>Hemlock</u>

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 30 acres 800-1200 ft. 4 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 22 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 34 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the MARGARET COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

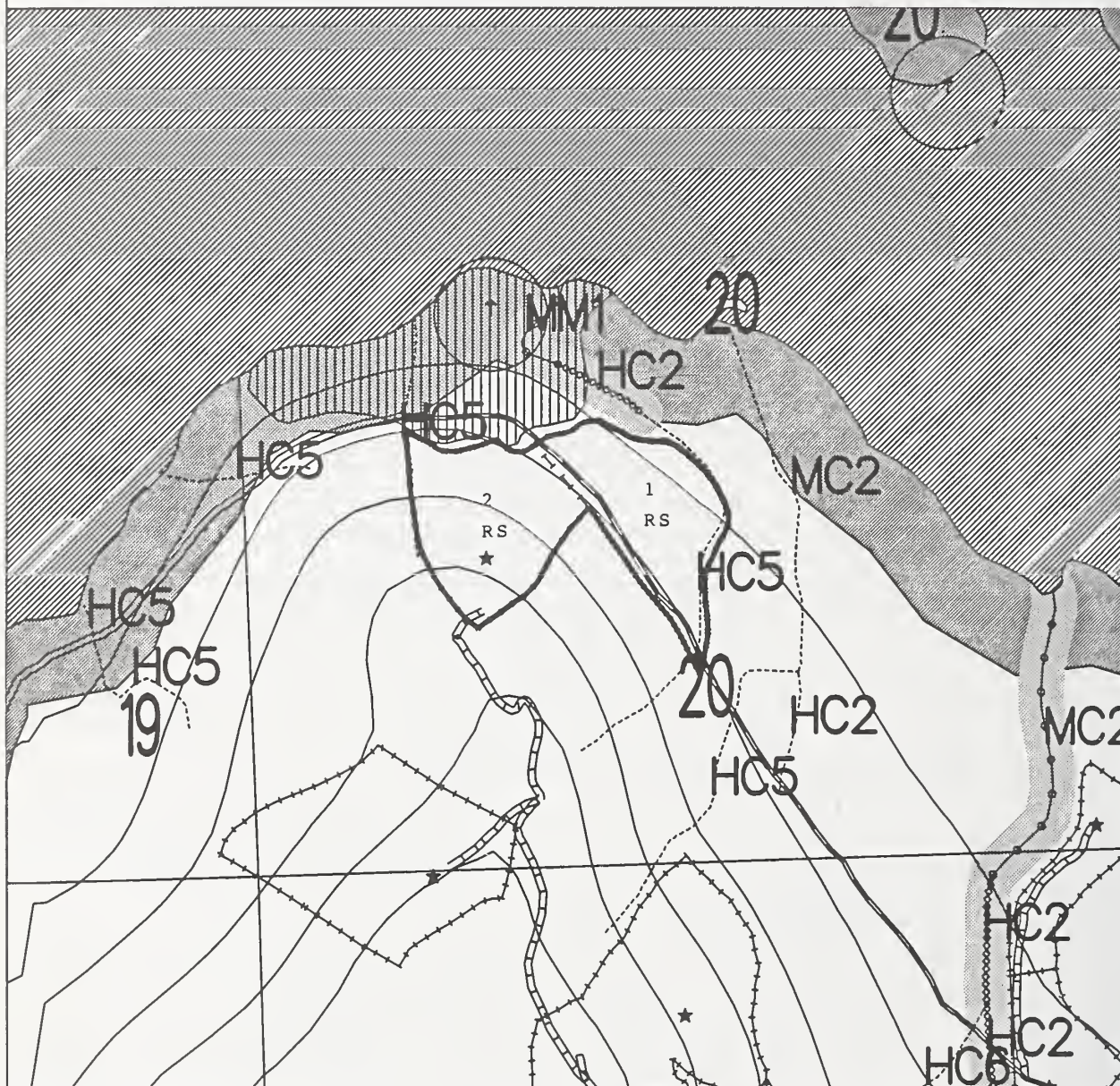
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8117

PLANNED HARVEST UNIT MAP

ACRES: 34 VOLUME: 1068 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-63 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

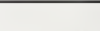
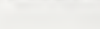


SHELTERWOOD

HARVEST



BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8118</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>61</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1930</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 51 acres VC6 5 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 9 acres over 1500 ft. 51 acres
Mass movement index: Low 27 acres Medium 0 acres High 33 acres Very High 0 acres
Cedar 0 Hemlock 2 Mixed 58 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 52 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8118

PLANNED HARVEST UNIT MAP

ACRES: 61VOLUME: 1930

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWS

PHOTO NUM.:

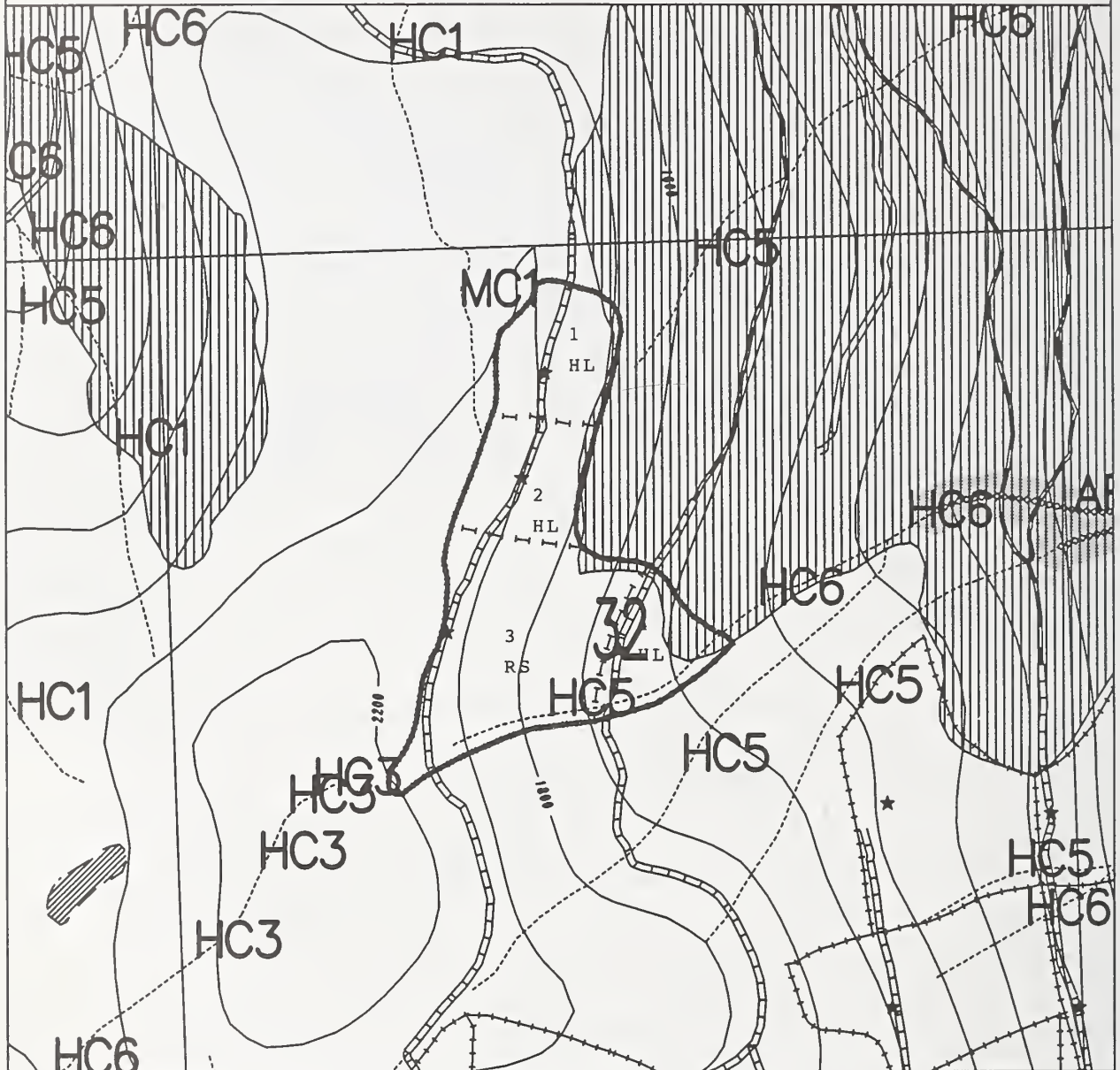
1179-61

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8119</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>21</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>556</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 5 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 21 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 13 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 36 Percent Unseen 64 Aspect West

SOILS

This unit contains 21 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

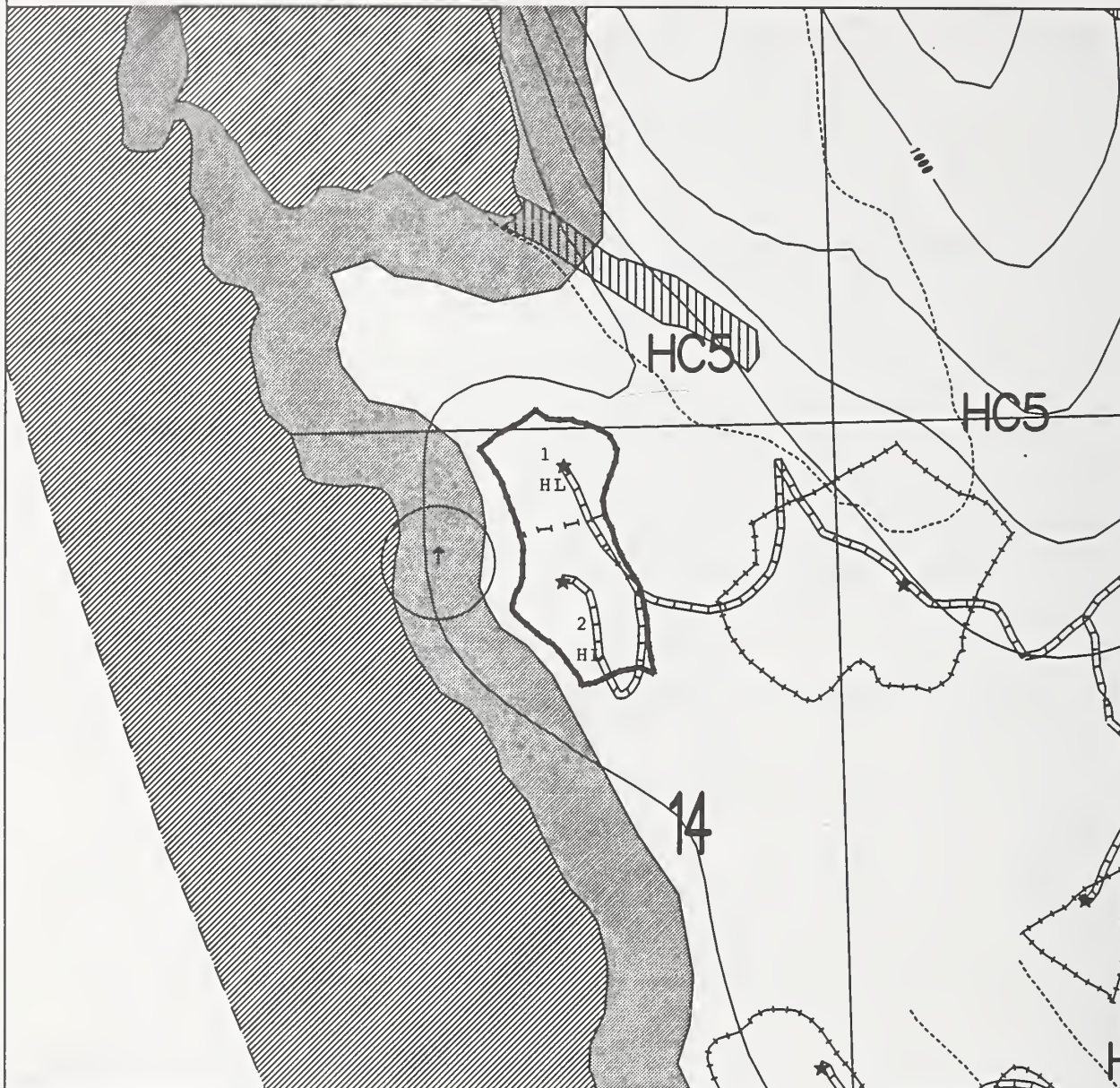
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8119

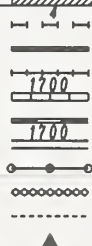
PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 556 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE



EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8537</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>87</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2839</u>		Mgmt Area <u>K32</u> VCU <u>7380</u>	Plant Series <u>NME</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 2 acres VC5 85 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 32 acres 1200-1500 ft. 15 acres over 1500 ft. 2 acres
Mass movement index: Low 22 acres Medium 0 acres High 64 acres Very High 0 acres
Cedar 0 Hemlock 85 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 86 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 1.38 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8537

PLANNED HARVEST UNIT MAP

ACRES: 86VOLUME: 2839

MBP

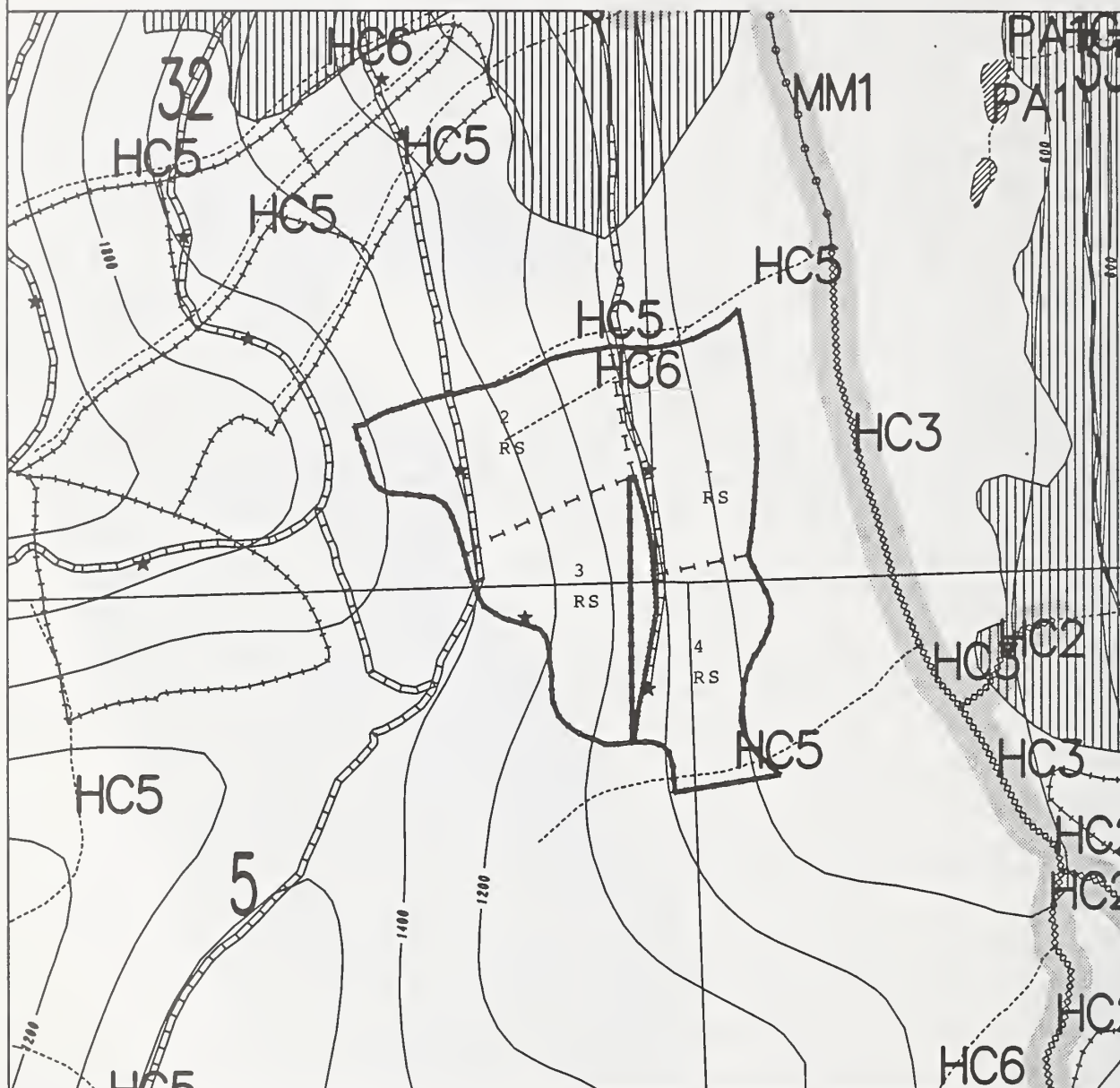
QUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-60

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet
MAPSCALE 1:12000

LANDING ★
EAGLE TREE (upward arrow in circle)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHelterWOOD
HARVEST
BEACH BUFFER



July 14, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>8574</u>	No. Settings <u>2</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>33</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1035</u>		Mgmt Area <u>832</u> VCU <u>7380</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-17</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 33 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 22 acres 800-1200 ft. 11 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 33 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

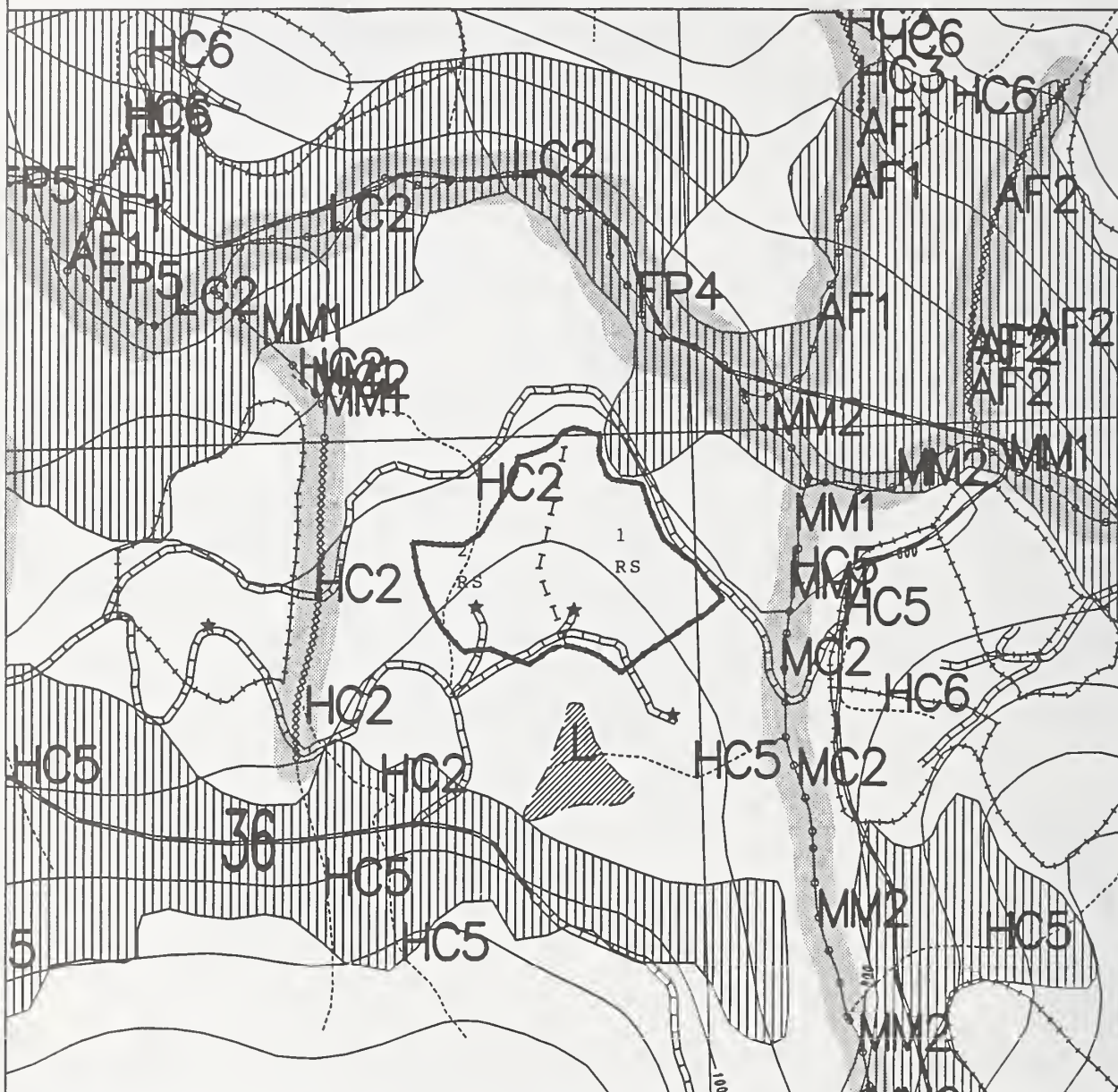
There are no geological mitigation measures anticipated for this unit.

VCU: 7380UNIT NUMBER: 8574

PLANNED HARVEST UNIT MAP

ACRES: 33 VOLUME: 1035 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-17 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 9000	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>68</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2083</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 60 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 34 acres 800-1200 ft. 27 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 67 acres Very High 1 acres
Cedar 0 Hemlock 52 Mixed 16 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 68 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 65 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9000

PLANNED HARVEST UNIT MAP

ACRES: 68VOLUME: 2083

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWN

PHOTO NUM.:

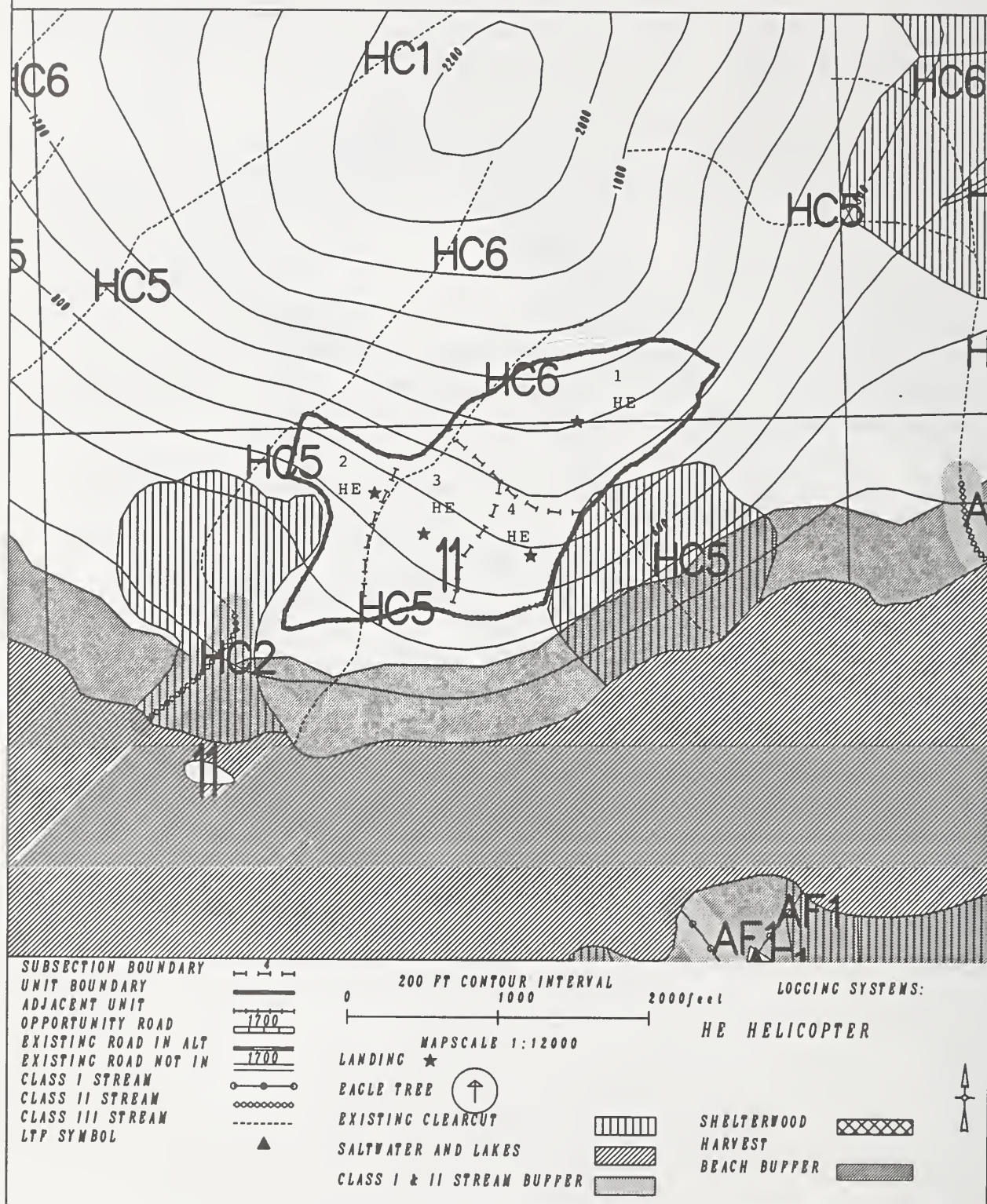
1179-16

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9001</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>53</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1661</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 53 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 36 acres 800-1200 ft. 16 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 4 acres High 46 acres Very High 3 acres
Cedar 0 Hemlock 0 Mixed 53 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 53 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 47 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

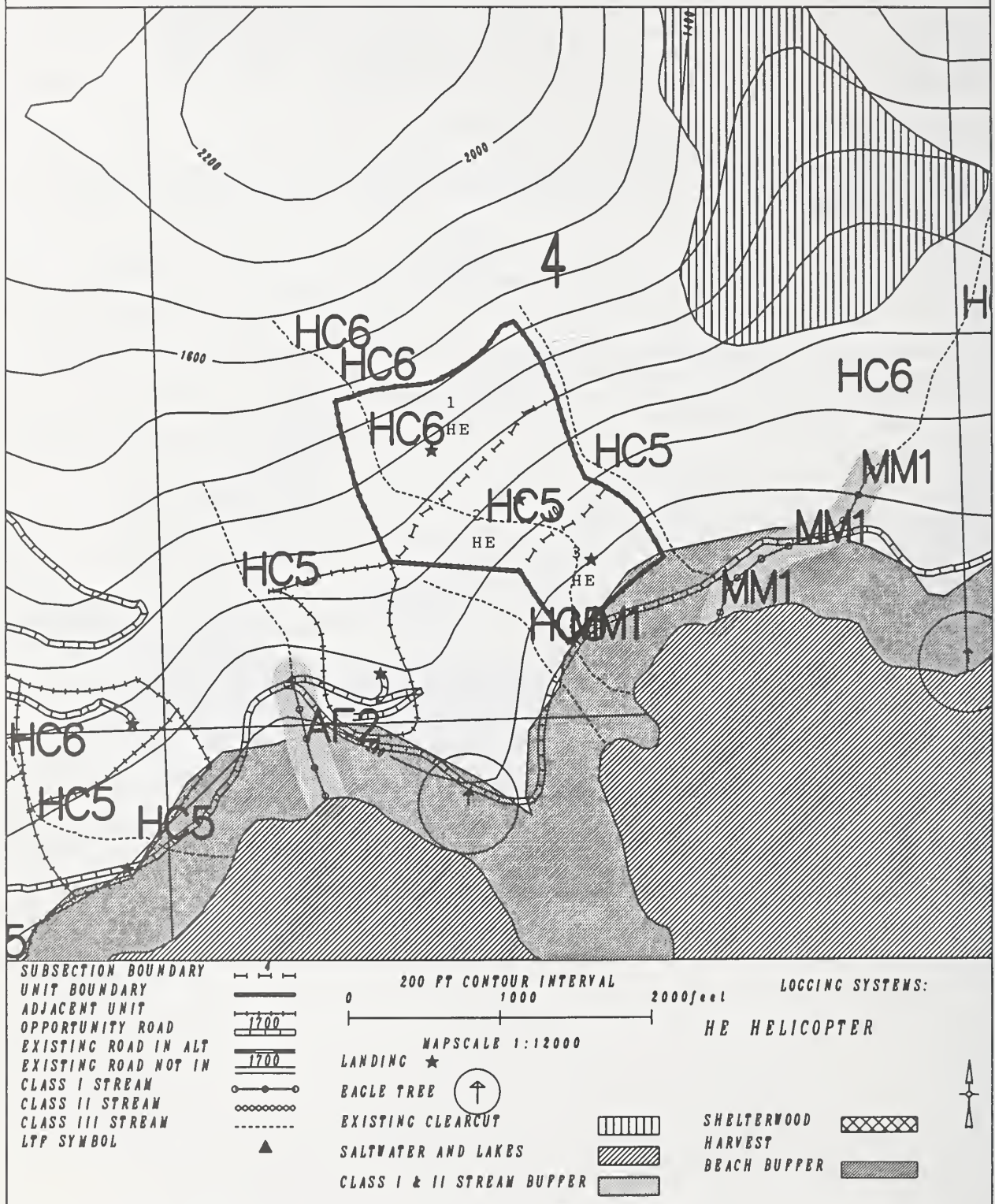
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9001

PLANNED HARVEST UNIT MAP

ACRES: 53 VOLUME: 1661 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9002</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 6</u>	VQO <u>PR</u>
Planned acres <u>19</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>596</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 19 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 19 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 18 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9002

PLANNED HARVEST UNIT MAP

ACRES: 19VOLUME: 596

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWN

PHOTO NUM.:

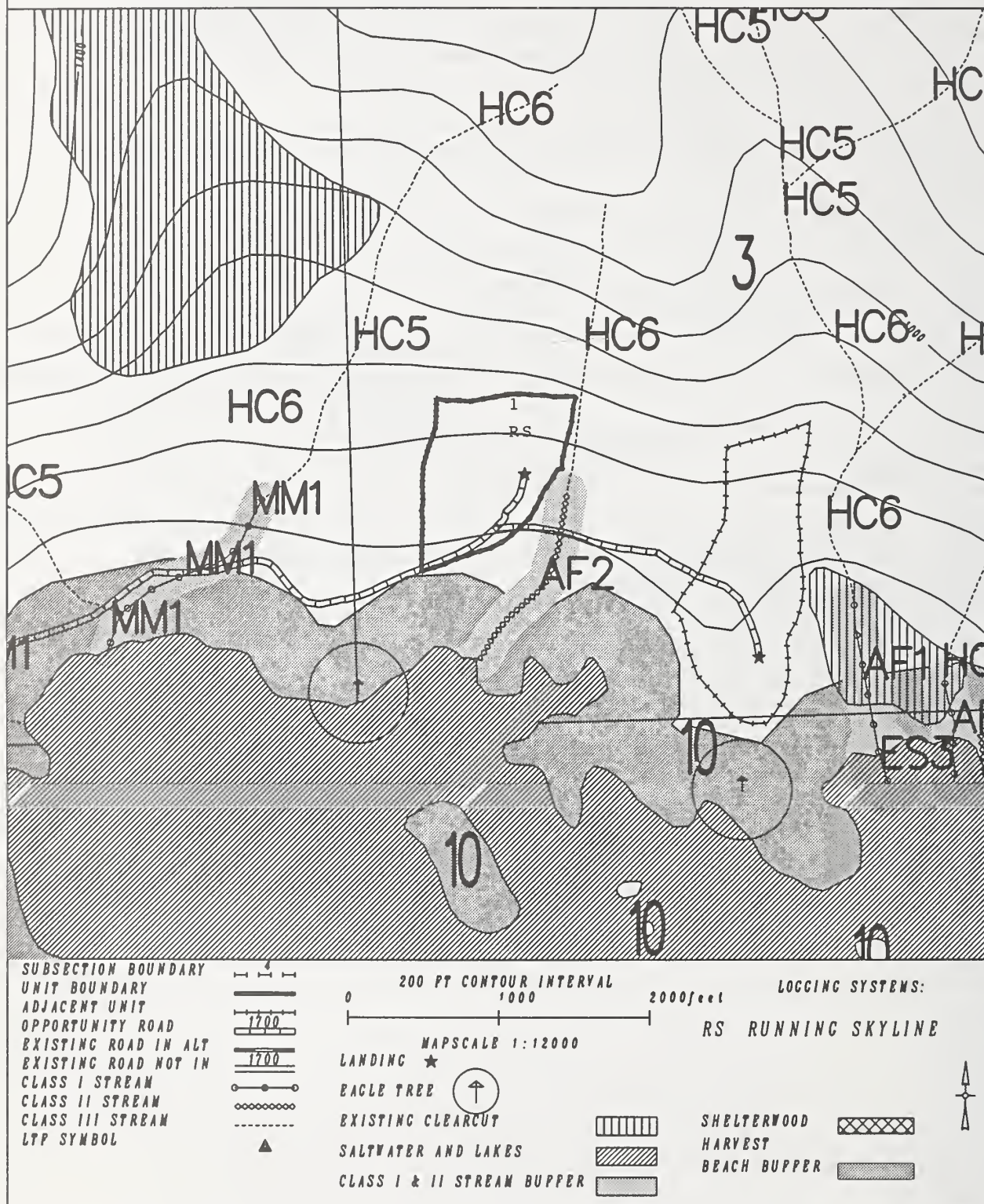
1179-10

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9003</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>25</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>701</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 13 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 20 acres Medium 3 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9003

PLANNED HARVEST UNIT MAP

ACRES: 25

VOLUME: 701

MBP

QUAD(s): KTNCS

QUARTER QUAD(s): NWN

PHOTO NUM.: 1179-10

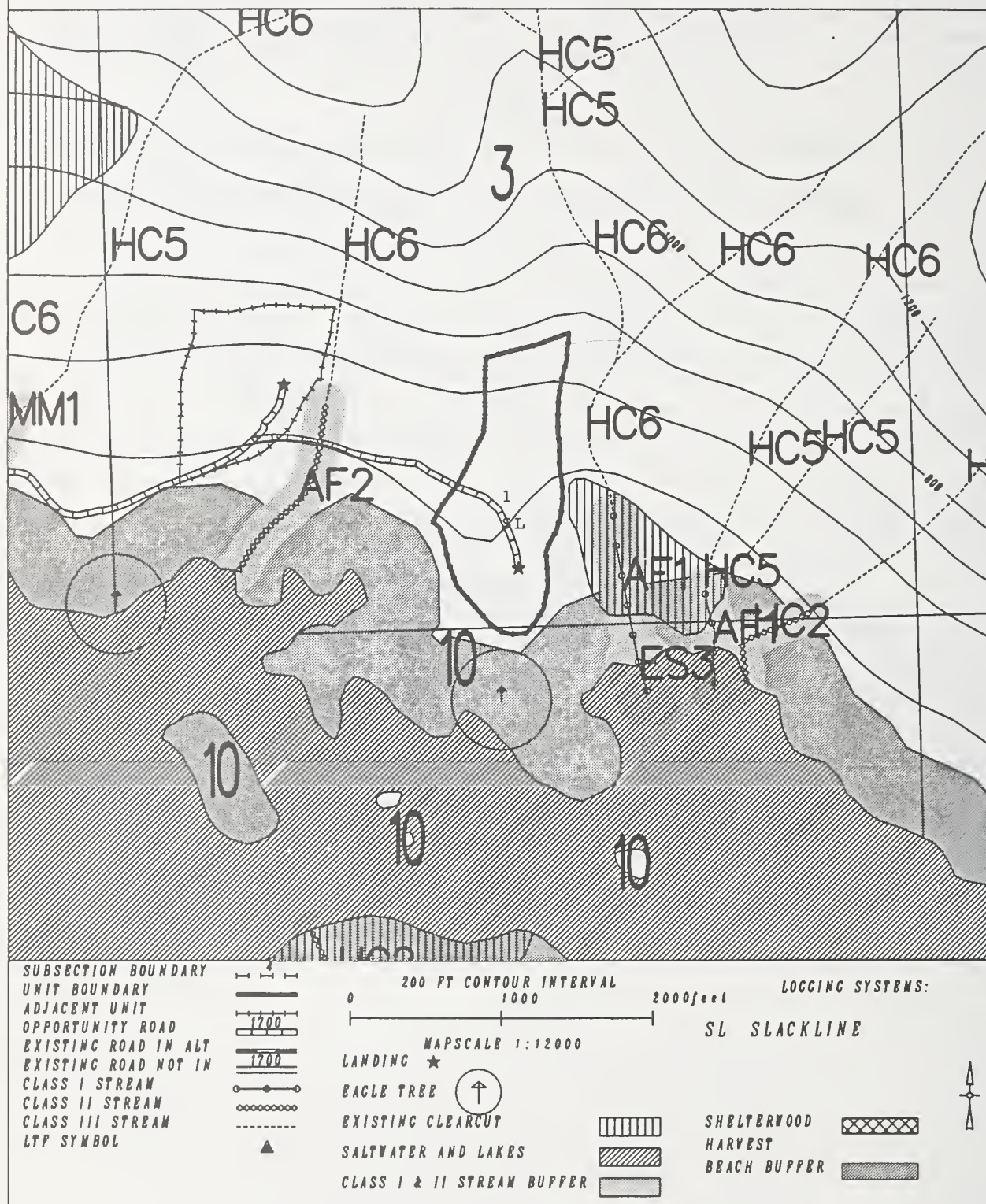
LANDNET INFO

TOWNSHIP

71S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9004</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>PR</u>
Planned acres <u>28</u>		Quad <u>KTNC5HWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>827</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHM</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 20 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 21 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 27 acres Very High 1 acres
Cedar 0 Hemlock 27 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 26 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9004

PLANNED HARVEST UNIT MAP

ACRES: 28VOLUME: 827

MBP

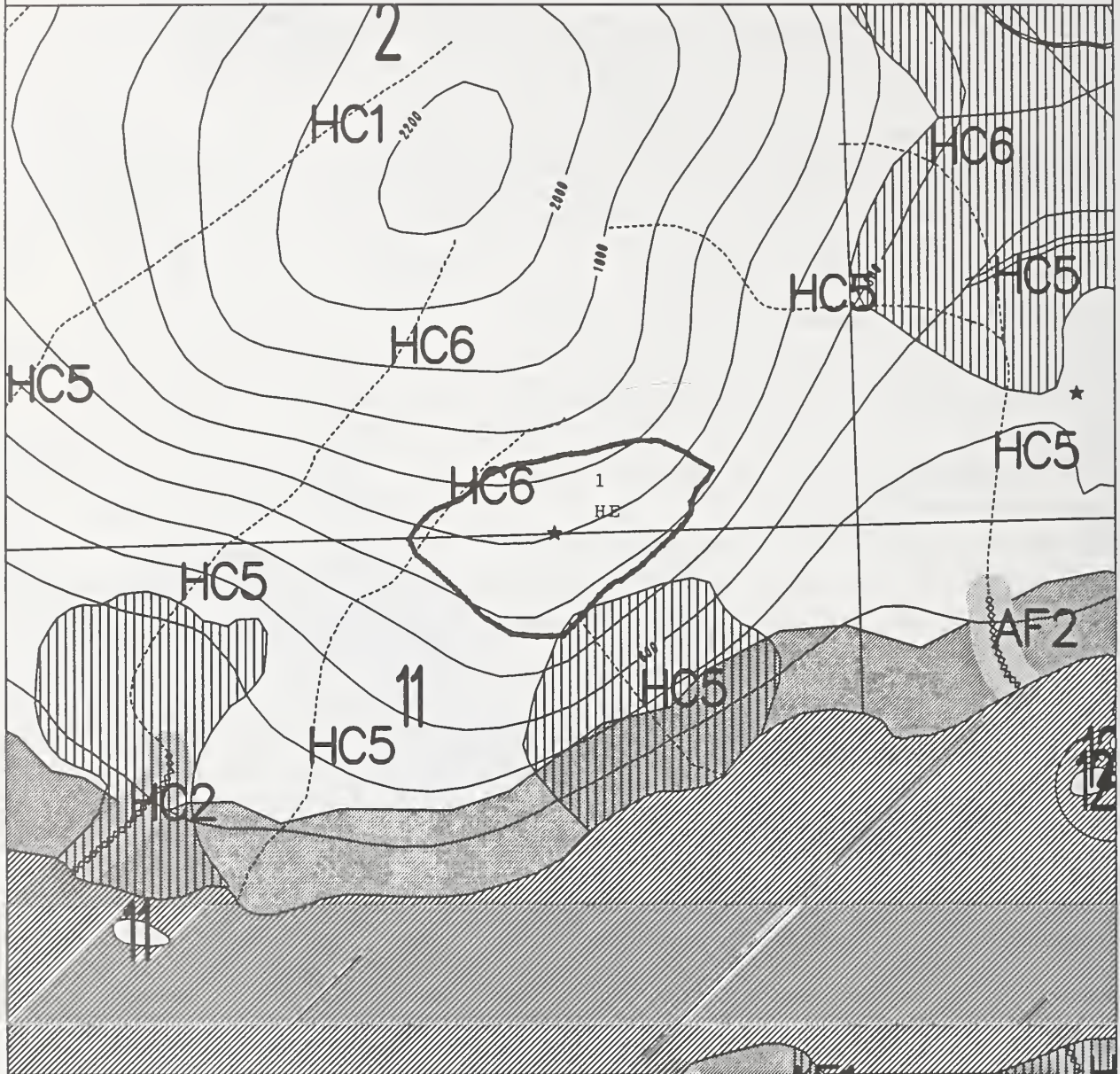
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-16

LANDNET INFO

TOWNSHIP

71SRANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

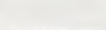
LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9005</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>61</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1913</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 61 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 61 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 41 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 21 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 15 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.03 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9005

NORTH KEYVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 61

VOLUME: 1913

NDP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1179-16

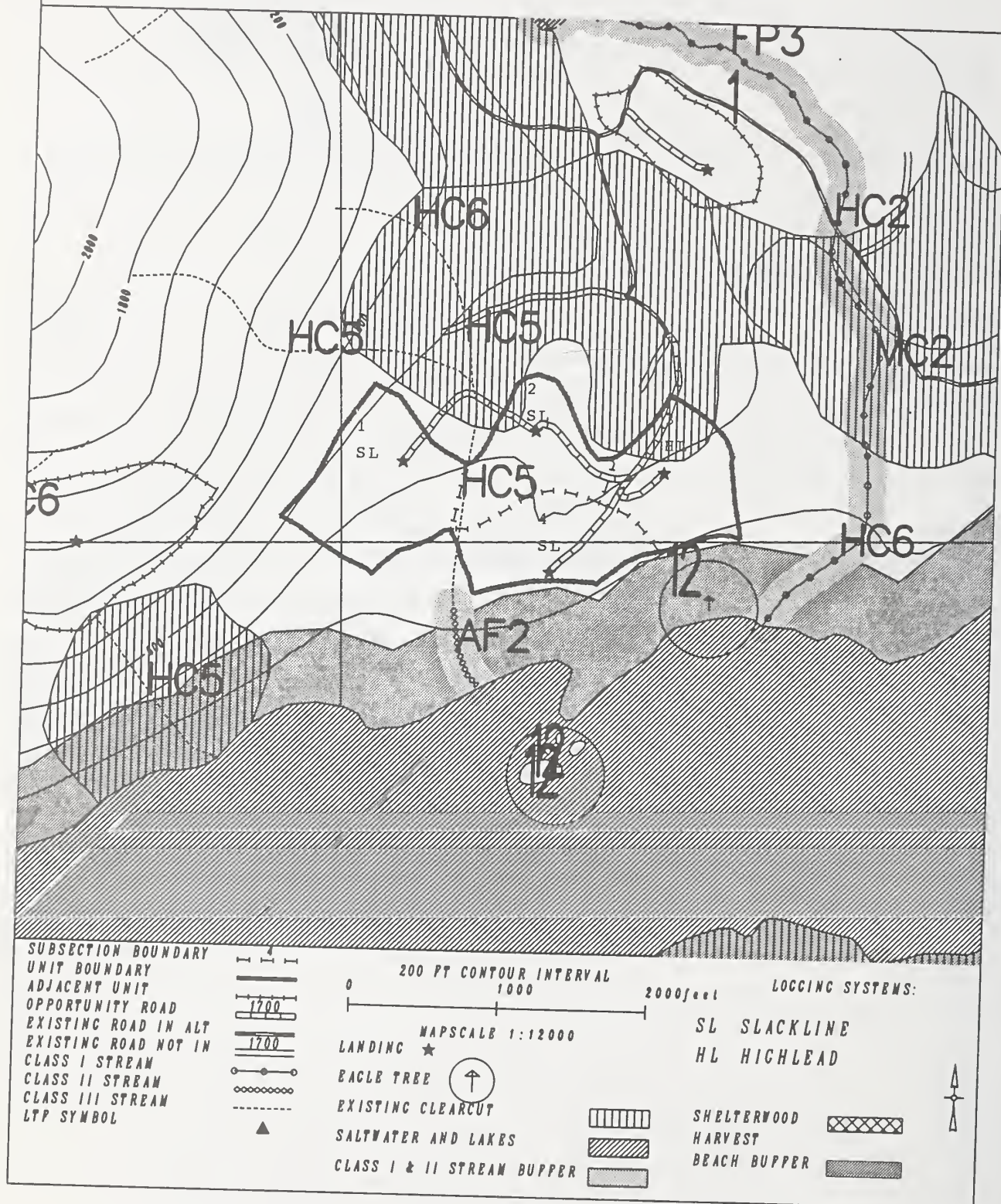
LANDNET INFO

TOWNSHIP

71S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9006</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>PR</u>
Planned acres <u>13</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>408</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 13 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 13 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 13 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 1 Percent Seen 69 Percent Unseen 31 Aspect West

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9006

PLANNED HARVEST UNIT MAP

ACRES: 13VOLUME: 408

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWN

PHOTO NUM.:

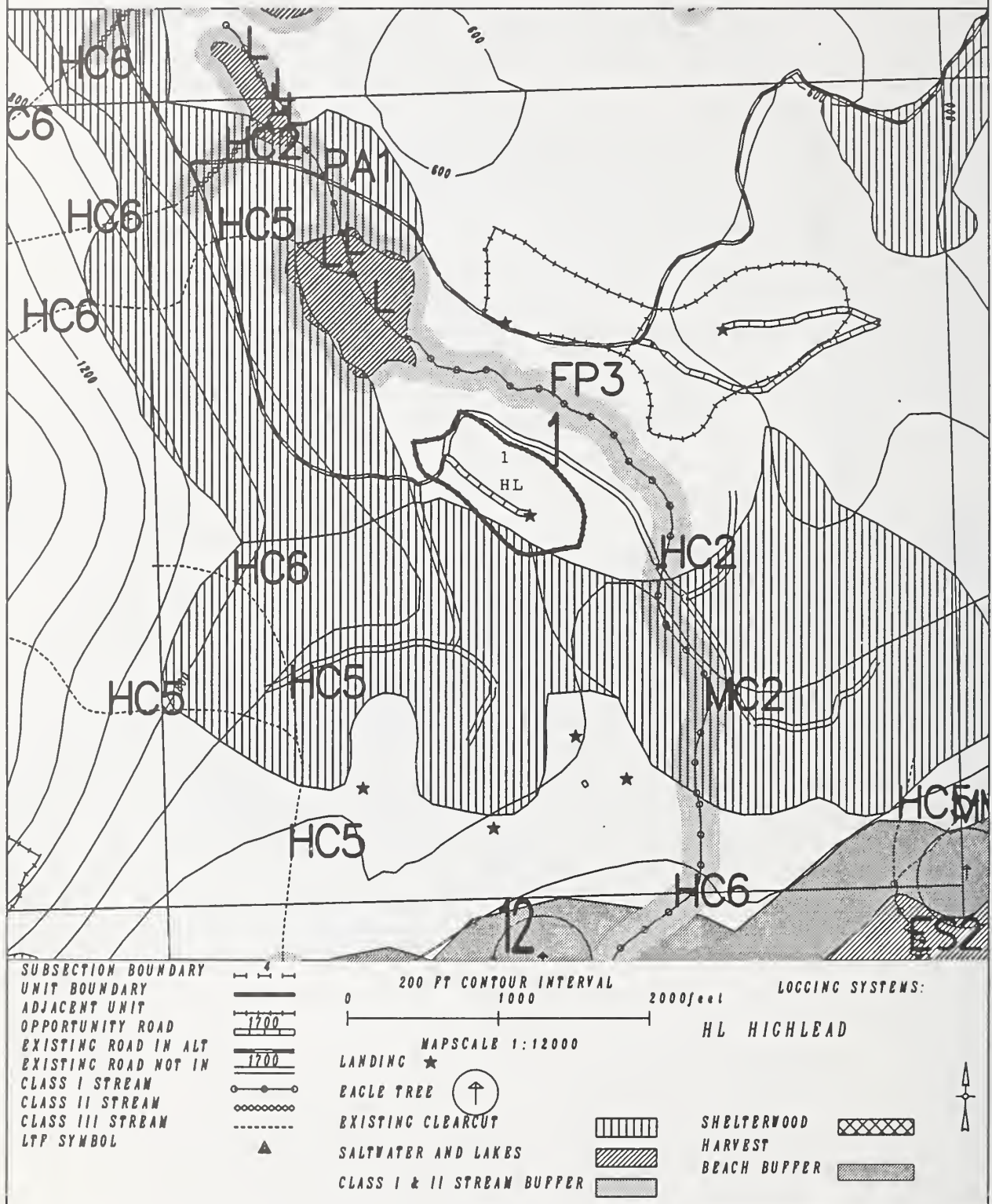
1179-16

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9007</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>11</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>275</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 11 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 5 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9007

PLANNED HARVEST UNIT MAP

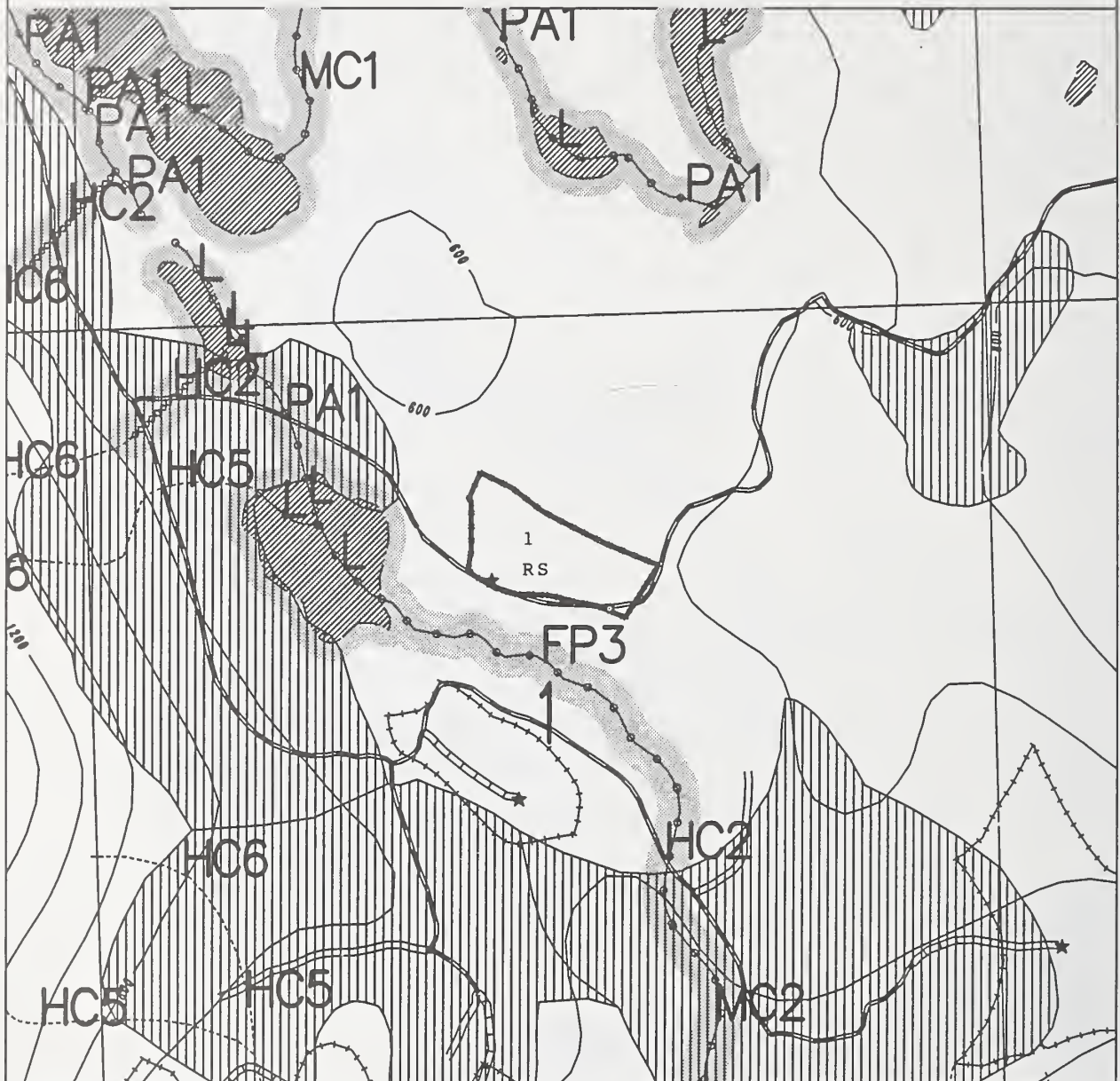
ACRES: 11VOLUME: 275 MBPQUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-18

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST

BEACH BUFFER

July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9008</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>27</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>876</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 3 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 18 acres Very High 9 acres
Cedar 0 Hemlock 16 Mixed 11 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9008

PLANNED HARVEST UNIT MAP

ACRES: 27VOLUME: 876

MBP

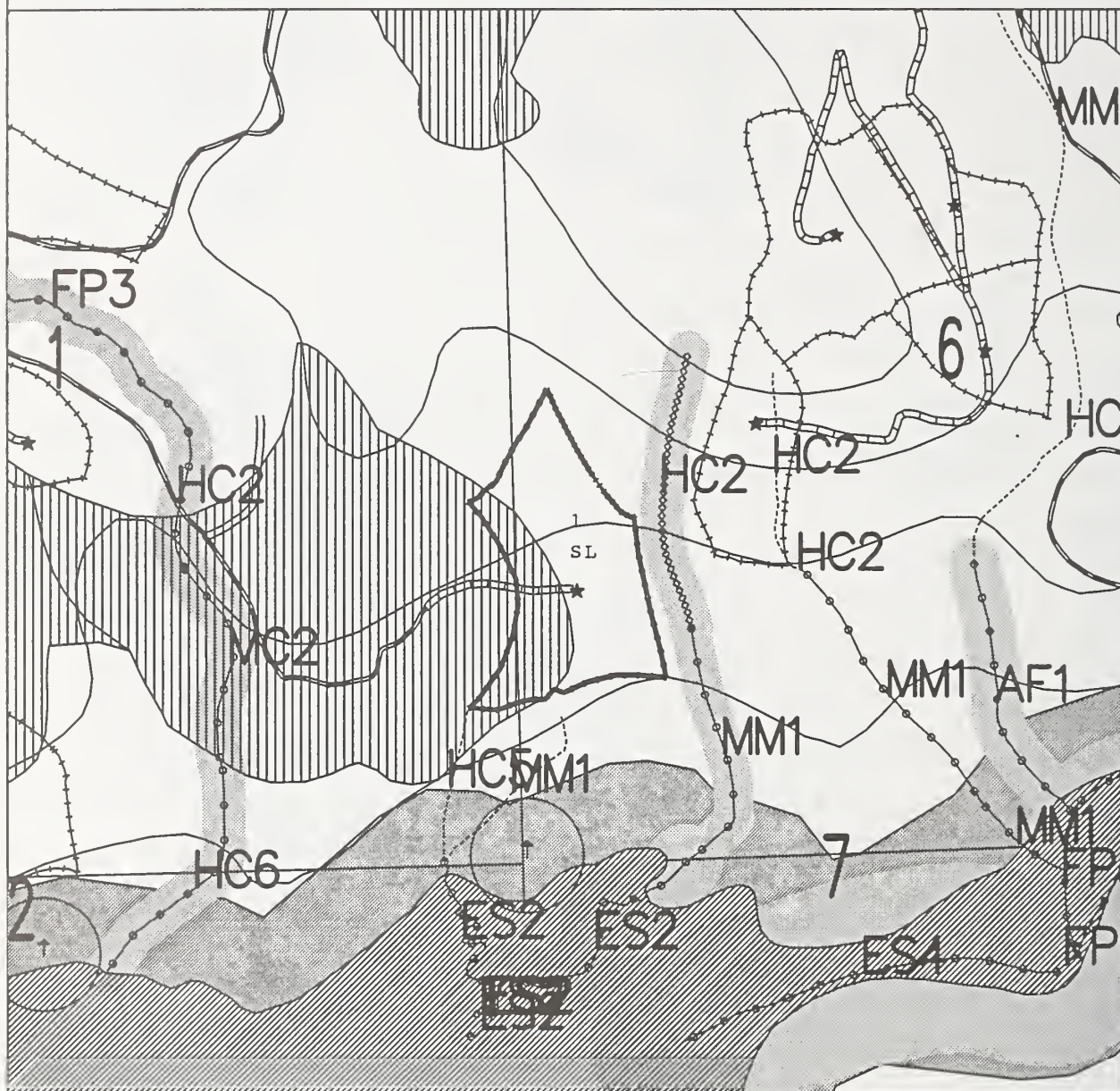
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-18

LANDNET INFO

TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9009</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>62</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1930</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 53 acres VC6 9 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 42 acres 800-1200 ft. 20 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 19 acres Medium 0 acres High 0 acres Very High 43 acres
Cedar 0 Hemlock 52 Mixed 9 Percent Seen 42 Percent Unseen 58 Aspect South

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 42 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.25 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

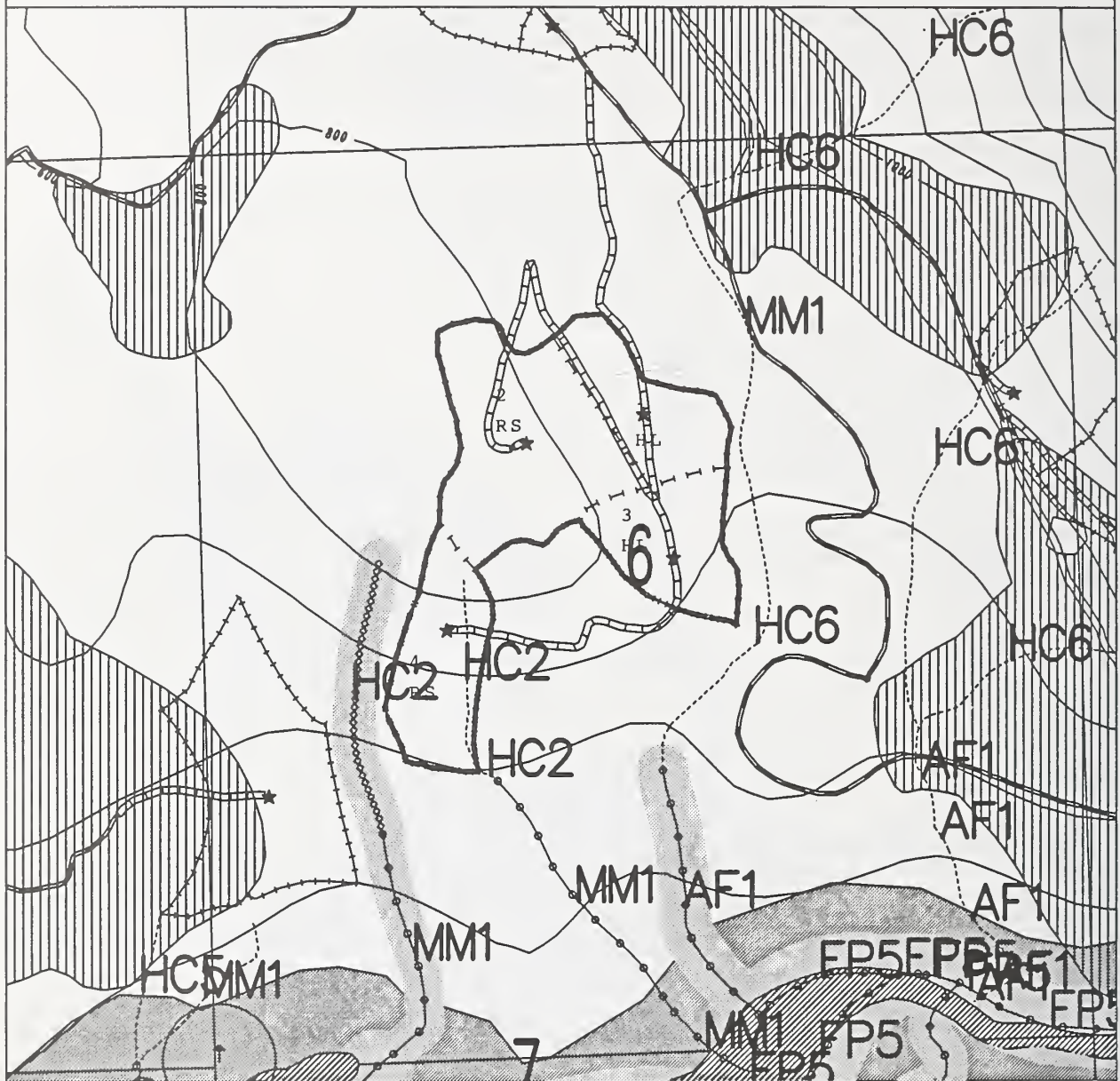
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9009

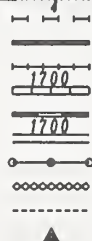
PLANNED HARVEST UNIT MAP

ACRES: 62 VOLUME: 1930 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000
 LANDING ★
 BACLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9010</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	<u>5</u>	VQO <u>MM</u>
Planned acres <u>22</u>		Quad <u>KTND5SWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>628</u>		Mgmt Area <u>K32</u>	VCU <u>7390</u>	Plant Series <u>SSR</u>
Logging methods <u>HL</u>		WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 22 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 15 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 22 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 2 acres that may require partial or full suspension (BMP 13.9)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Replanting of sitka spruce should be considered.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.27 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9010

PLANNED HARVEST UNIT MAP

ACRES: 22VOLUME: 628

MBP

QUAD(s): KTND5QUARTER QUAD(s): SWS

PHOTO NUM.:

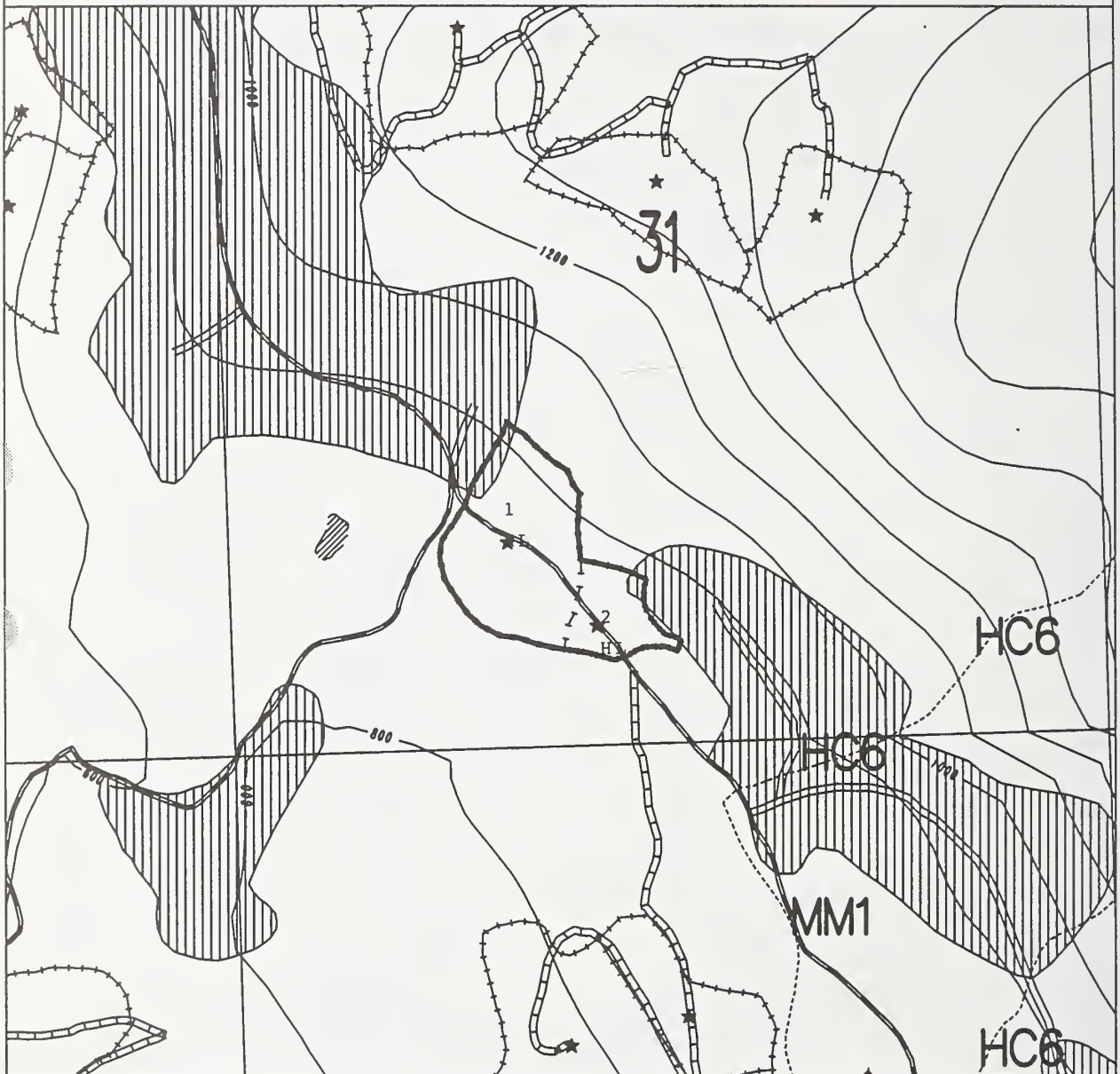
1179-18

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9011</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>14</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>565</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 1 acres VC6 13 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 14 acres
Mass movement index: Low 1 acres Medium 0 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 0 Percent Seen 93 Percent Unseen 7 Aspect South

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

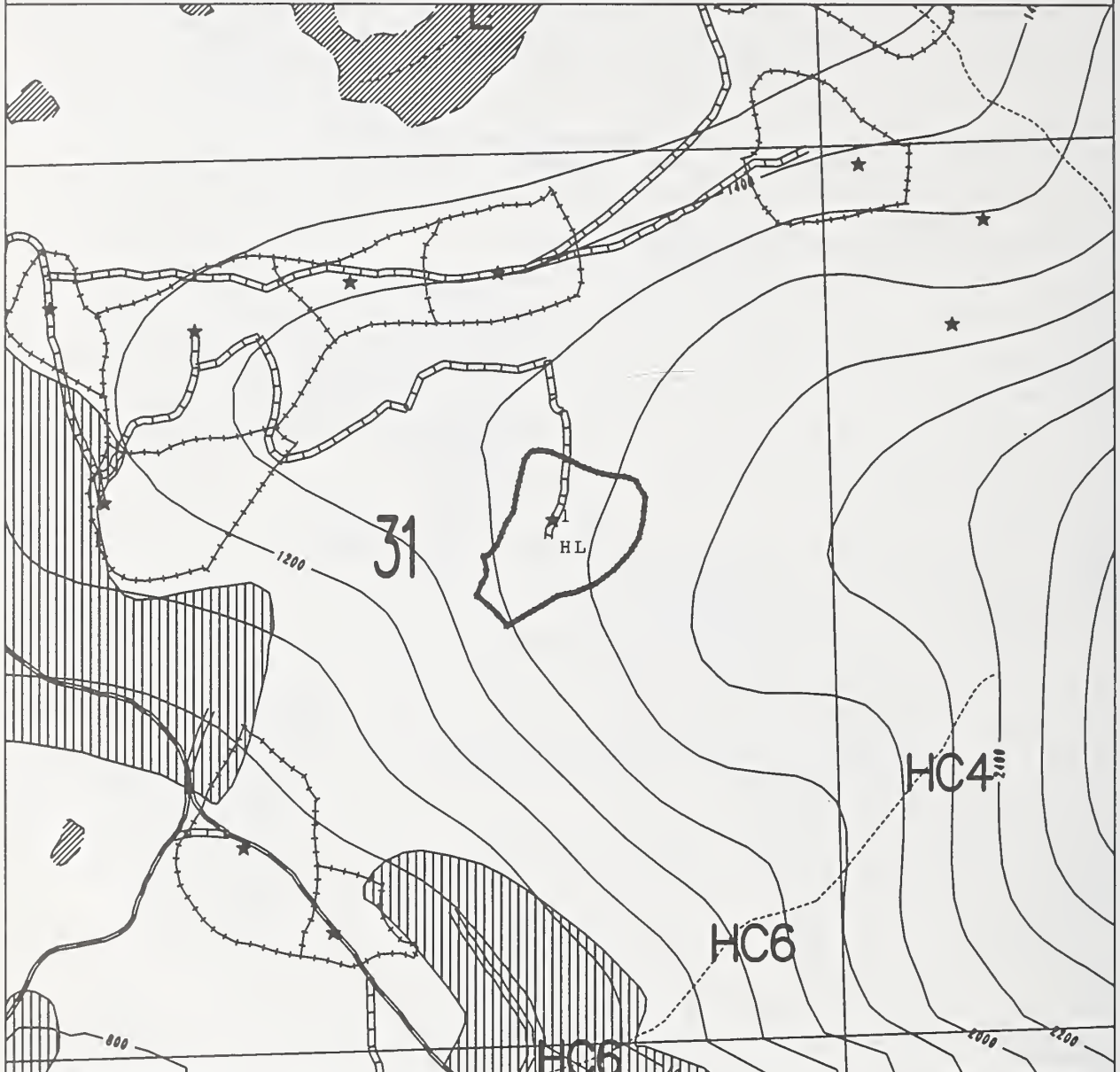
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9011

PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 565 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 9012	No. Settings 3	Alternatives considered 2	VQO M
Planned acres 47		Quad KTNC5NWN	Windthrow risk H
Estimated volume (mbf) 1426		Mgmt Area K32 VCU 7390	Plant Series CMB
Logging methods SL		WAA 510	Forest type Hemlock
Silvicultural system Clearcut		1981 Photo 1279-9	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 47 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 38 acres 1200-1500 ft. 8 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 38 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 47 Mixed 0 Percent Seen 96 Percent Unseen 4 Aspect West

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Replanting of yellow cedar should be considered.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.14 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

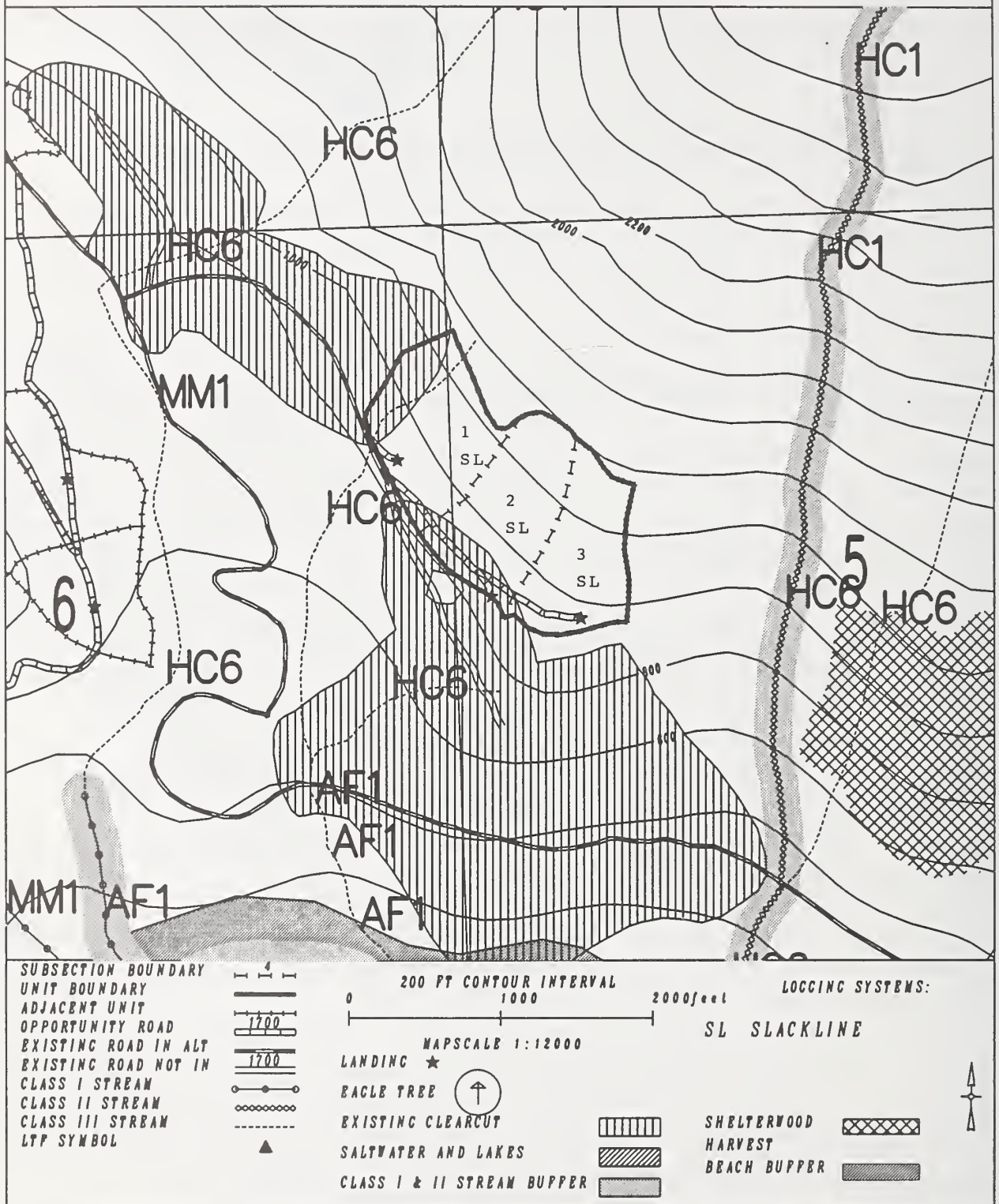
VCU: 7390

UNIT NUMBER: 9012

PLANNED HARVEST UNIT MAP

ACRES: 47 VOLUME: 1426 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-9 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9013</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>M</u>
Planned acres <u>14</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>439</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1279-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 2 acres over 1500 ft. 12 acres
Mass movement index: Low 3 acres Medium 0 acres High 8 acres Very High 3 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit contains 11 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9013

PLANNED HARVEST UNIT MAP

ACRES: 14VOLUME: 439

MBP

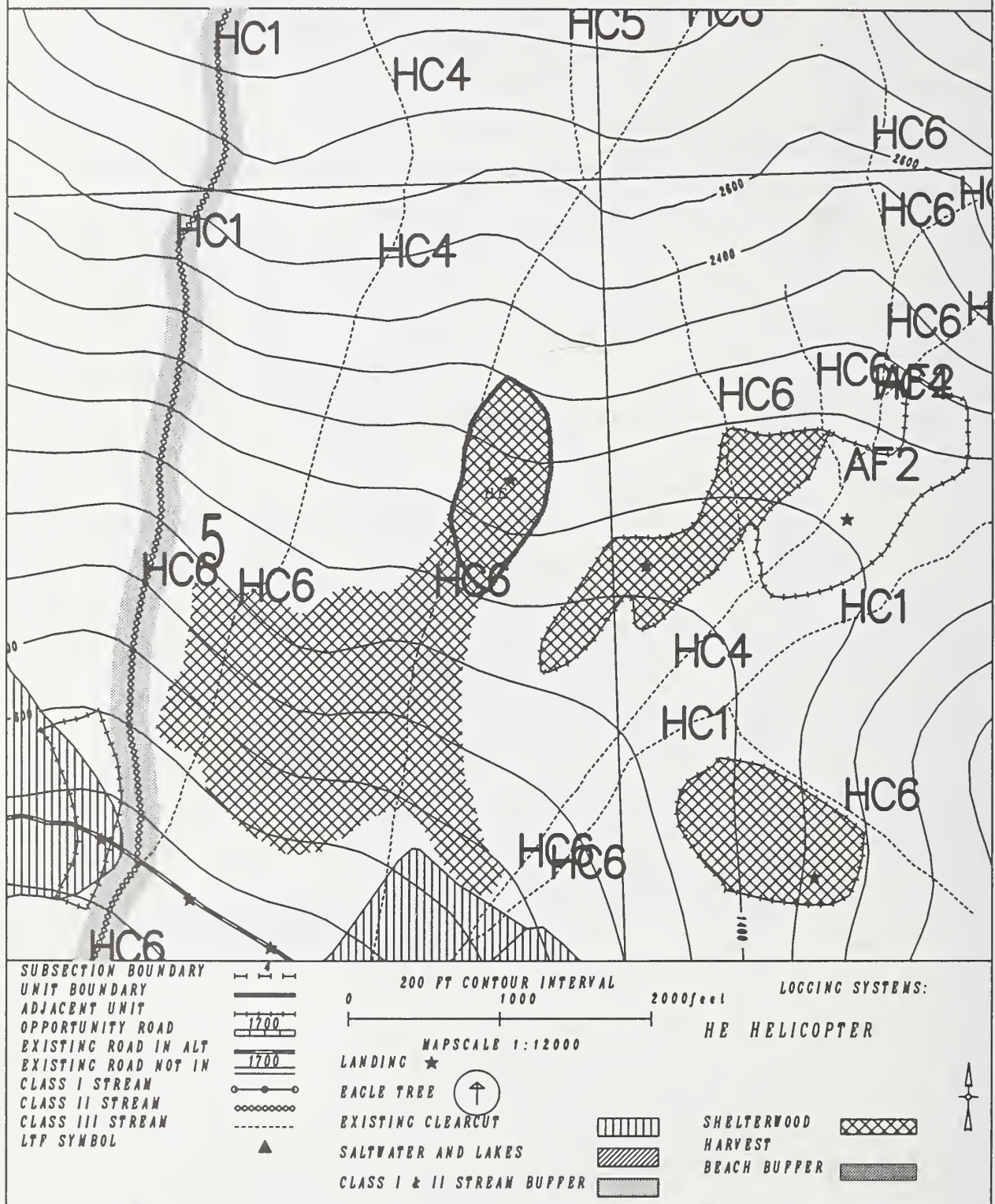
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1279-9

LANDNET INFO

TOWNSHIP

71SRANGR 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9014</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>M</u>
Planned acres <u>44</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1176</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1279-30</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 31 acres VC5 7 acres VC6 6 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 0 acres 1200-1500 ft. 13 acres over 1500 ft. 30 acres
Mass movement index: Low 0 acres Medium 9 acres High 34 acres Very High 1 acres
Cedar 0 Hemlock 43 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 43 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 28 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

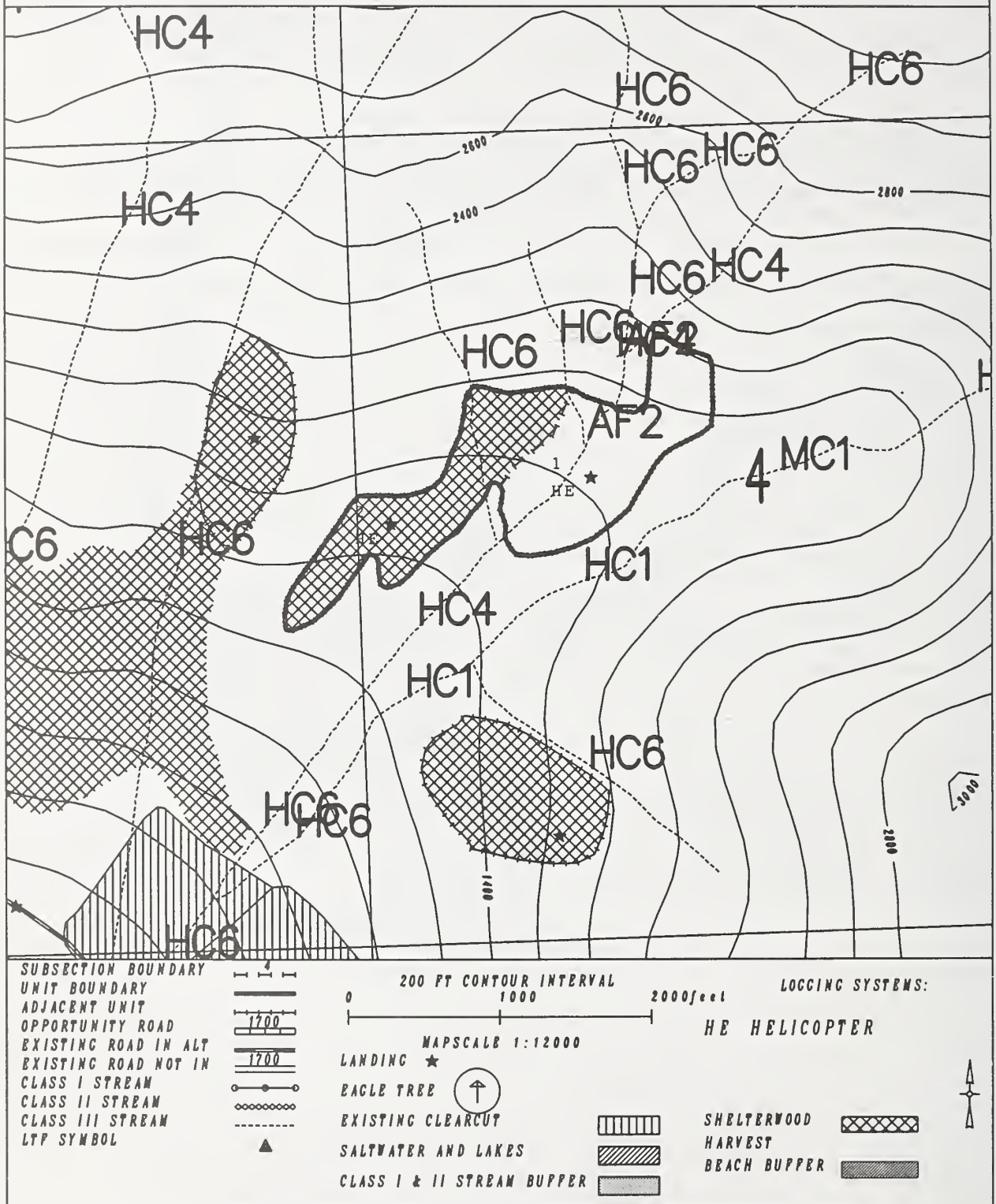
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9014

PLANNED HARVEST UNIT MAP

ACRES: 44 VOLUME: 1176 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-30 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 9015	No. Settings 1	Alternatives considered 2 5	VQO M
Planned acres 19		Quad KTNC5NEN	Windthrow risk H
Estimated volume (mbf) 474		Mgmt Area K32 VCU 7390	Plant Series CMB
Logging methods HE		WAA 510	Forest type Hemlock
Silvicultural system Shelter wood		1981 Photo 1279-29	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 8 acres over 1500 ft. 11 acres
Mass movement index: Low 0 acres Medium 19 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

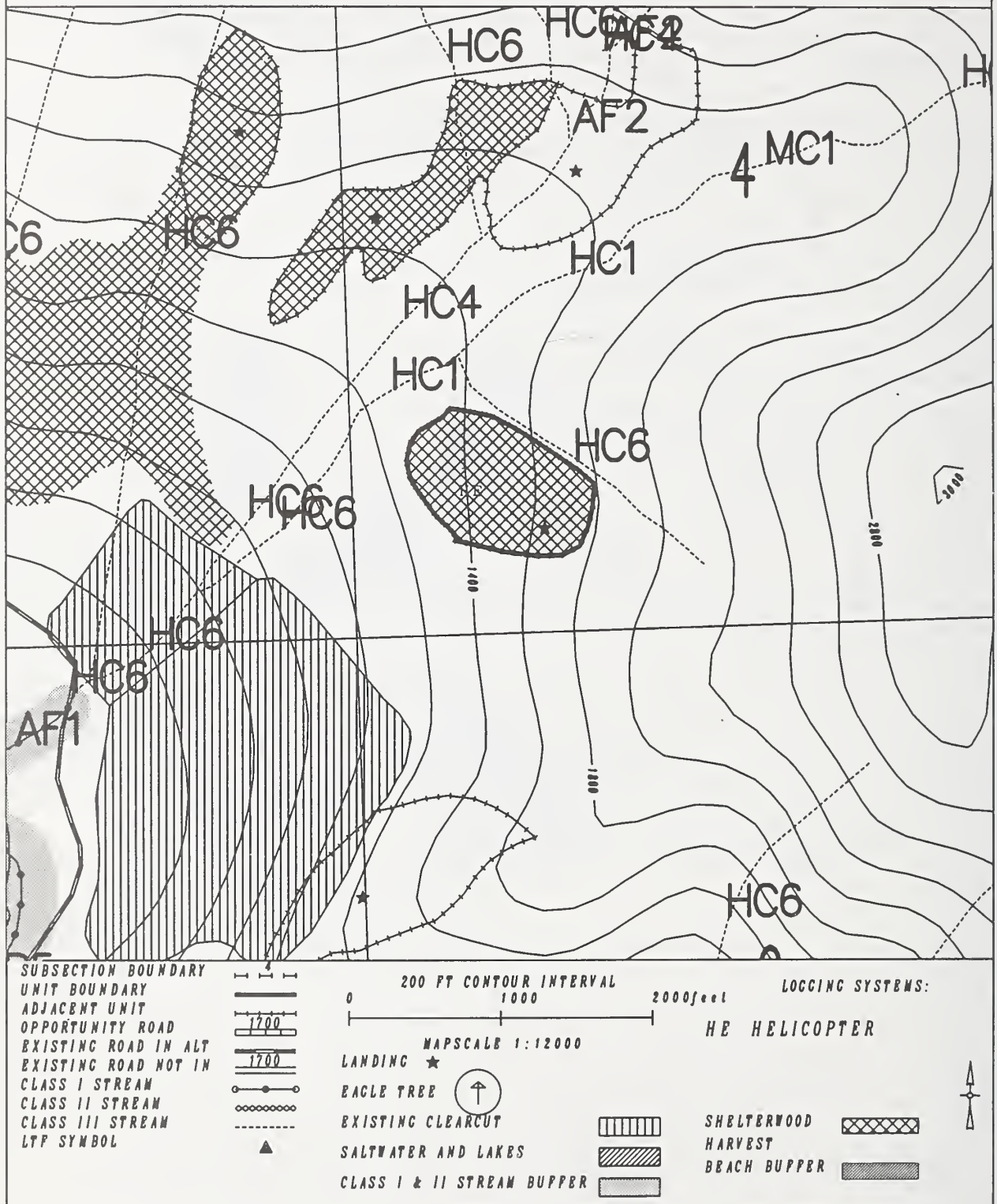
There are no geological mitigation measures anticipated for this unit.

VCU: _____ UNIT NUMBER: 9015

PLANNED HARVEST UNIT MAP

ACRES: 19 VOLUME: 474 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-29 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 9016	No. Settings	1	Alternatives considered	2	5	VQO	M	
Planned acres	24		Quad	KTNC5NEN		Windthrow risk	H	
Estimated volume (mbf)	702		Mgmt Area	K32	VCU	7390	Plant Series	WDC
Logging methods		HE	WAA	510		Forest type	Hemlock	
Silvicultural system	Clearcut		1981 Photo	1279-29				

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 6 acres 1200-1500 ft. 12 acres over 1500 ft. 5 acres
Mass movement index: Low 0 acres Medium 0 acres High 24 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9016

PLANNED HARVEST UNIT MAP

ACRES: 24VOLUME: 702

MBF

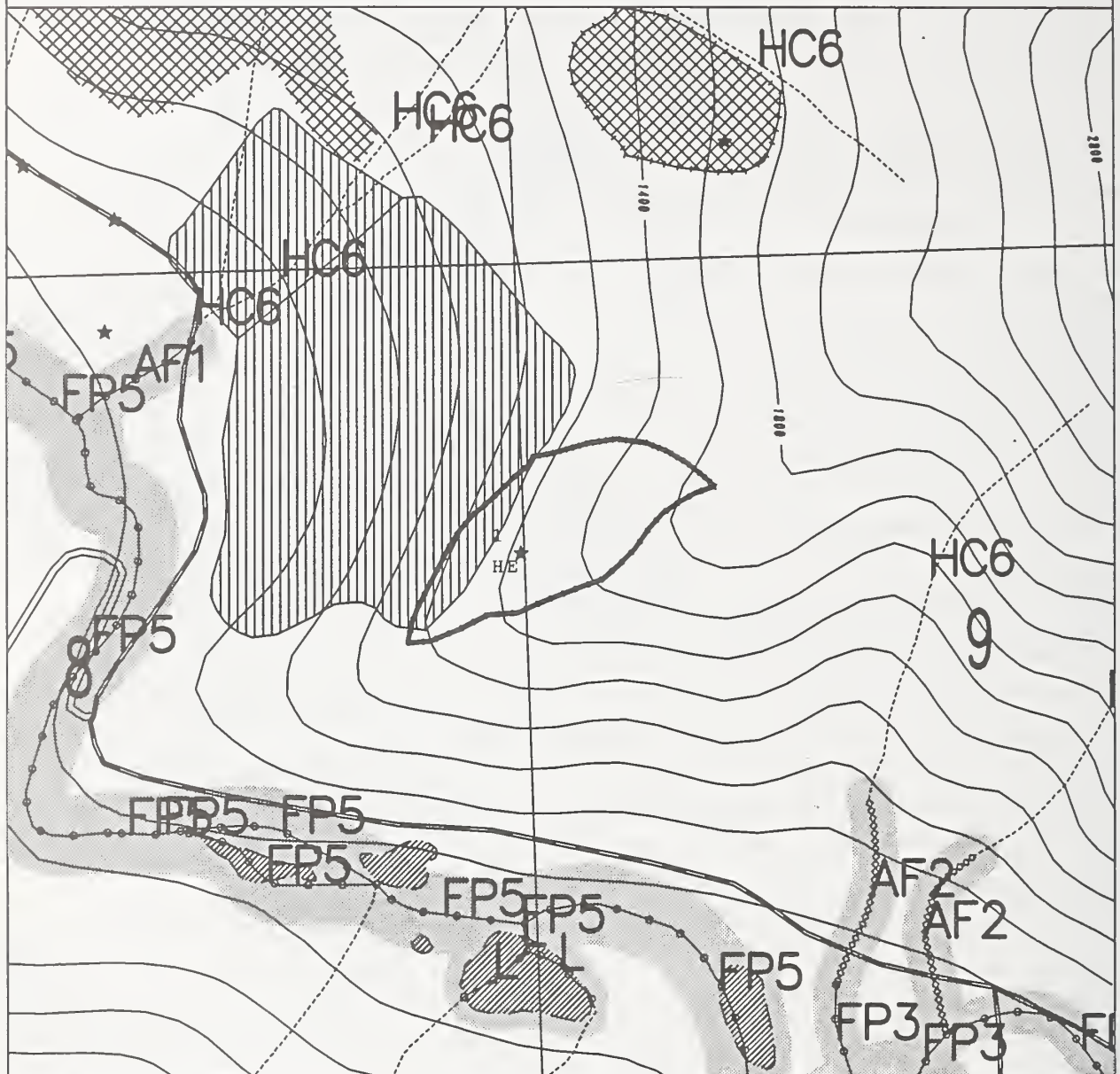
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1279-29

LANDNET INFO

TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (symbol)

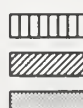
EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD
HARVEST
BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 9017	No. Settings	1	Alternatives considered	2	VQO	MM
Planned acres	16		Quad	KTNC5NEW	Windthrow risk	H
Estimated volume (mbf)	521		Mgmt Area	K32	VCU	7390
Logging methods	HL		WAA	510	Plant Series	WDC
Silvicultural system	Clearcut		1981 Photo	1279-11	Forest type	Hemlock

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 12 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 12 Percent Unseen 88 Aspect North

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 2.35 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9017

NORTH KEVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 16

VOLUME: 521

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1279-11

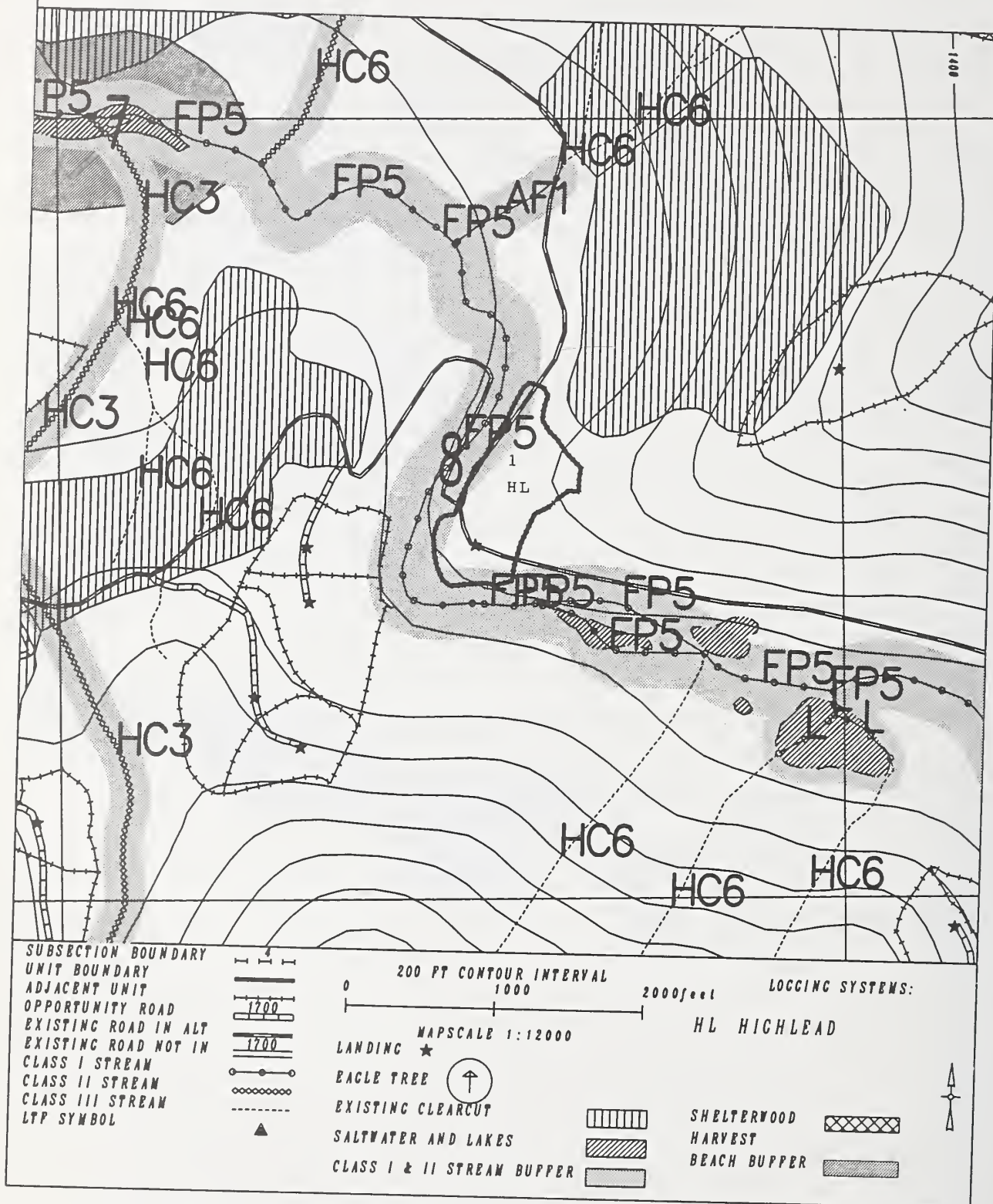
LANDNET INFO

TOWNSHIP

71S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 12, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9018</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>45</u>		Quad <u>KTNC5NEH</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1423</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 44 acres VC6 1 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 42 acres 800-1200 ft. 3 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 26 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 4 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 26 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 2.93 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9018

PLANNED HARVEST UNIT MAP

ACRES: 45VOLUME: 1423

MBP

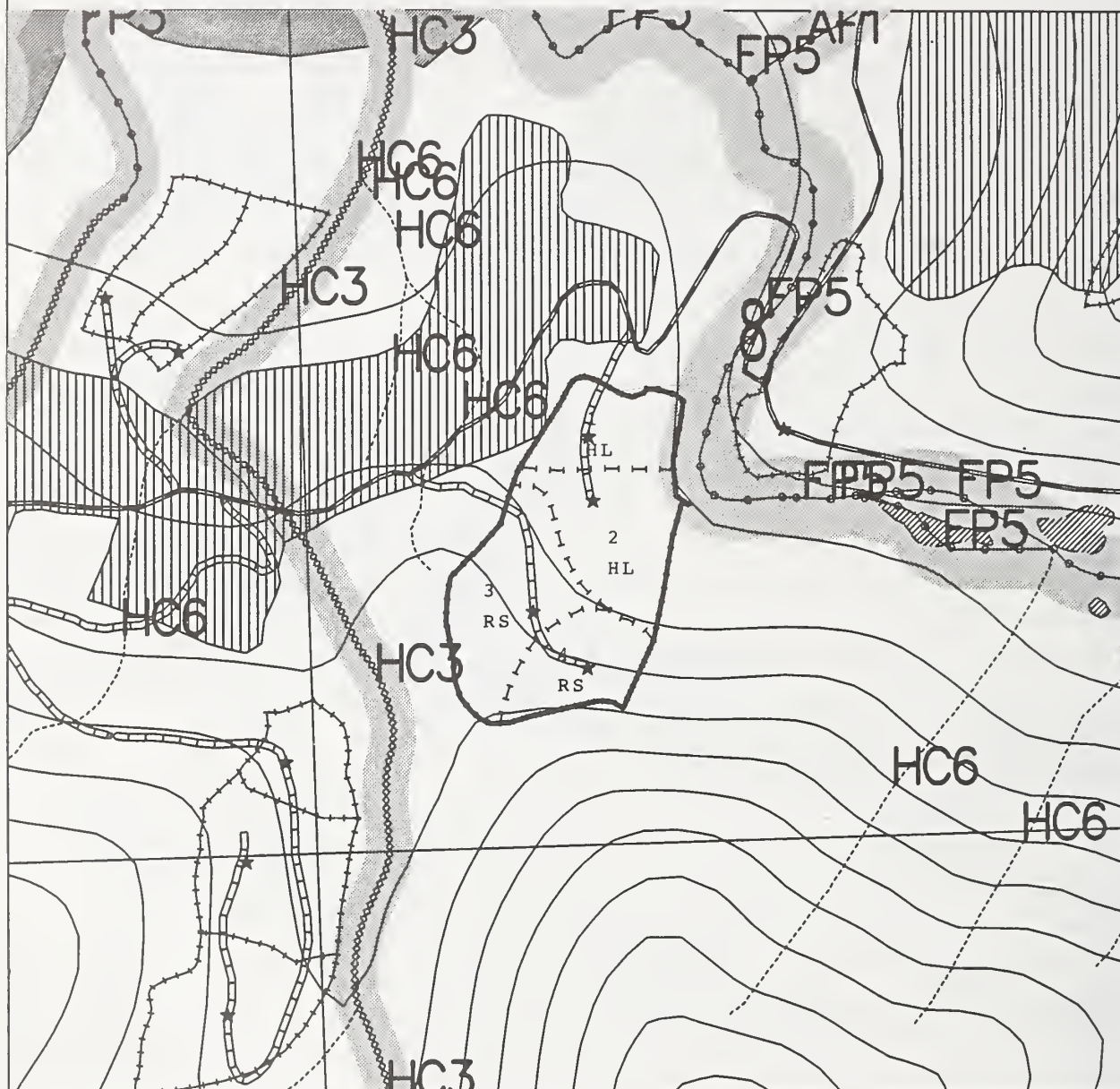
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1279-11

LANDNET INFO

TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9019</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>38</u>		Quad <u>KTNC5NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1192</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-28</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 38 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 38 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 31 acres High 6 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 4 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 5 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.15 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 4 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

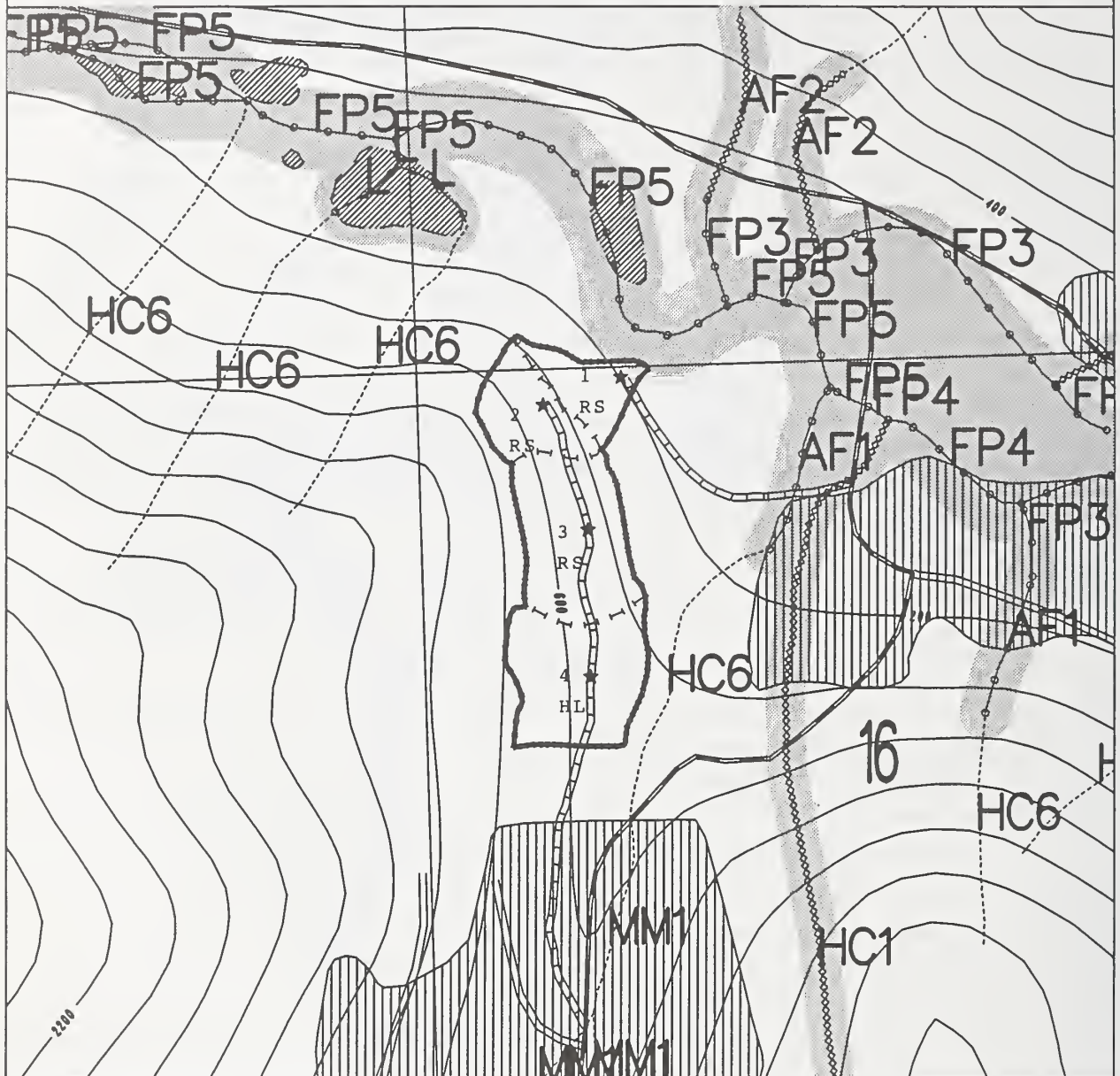
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9019

PLANNED HARVEST UNIT MAP

ACRES: 38 VOLUME: 1192 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-28 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9020</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>36</u>		Quad <u>KTNC5NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1123</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 35 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 5 acres 800-1200 ft. 16 acres 1200-1500 ft. 15 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 5 acres High 29 acres Very High 0 acres
Cedar 0 Hemlock 35 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 27 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 1.58 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 36 VOLUME: 1123 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NNN
PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

The geological map displays the following units and features:

- Geological Units:**
 - MM1:** Metamorphic unit, shown with vertical hatching.
 - MM2:** Metamorphic unit, shown with horizontal hatching.
 - HC1:** High-grade metamorphic unit, outlined with a thick black line.
 - HC2:** High-grade metamorphic unit, shown with diagonal hatching.
 - HC5:** High-grade metamorphic unit, shown with a stippled pattern.
 - HC6:** High-grade metamorphic unit, shown with a dotted pattern.
 - AF1:** Amphibolite unit, shown with a cross-hatched pattern.
 - FP3:** Felsic unit, shown with a fine dotted pattern.
 - FP4:** Felsic unit, shown with a coarse dotted pattern.
 - FP5:** Felsic unit, shown with a very fine dotted pattern.
- Topographic Features:**
 - Contour Lines:** Representing elevations of 400, 500, and 600 meters.
 - Streams:** Indicated by dashed lines with arrows.
 - Boundaries:** Dashed lines separating different geological units.
- Other Labels:**
 - 16:** A large number indicating a specific area or feature.
 - SL:** A label near the center of the map.
 - 1, 2, 3, 4:** Small numbers indicating specific locations or features.
 - HC1:** A label near the center of the map.
 - HC2:** A label near the bottom left of the map.
 - HC5:** A label near the bottom right of the map.
 - HC6:** A label near the bottom center of the map.

CLASS I & II STREAM BUPPER

SHELTERWOOD
HARVEST
BEACH BUPPER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9021</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 5 6</u>	VQO <u>MM</u>
Planned acres <u>25</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>760</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-27</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 23 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 5 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 3 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

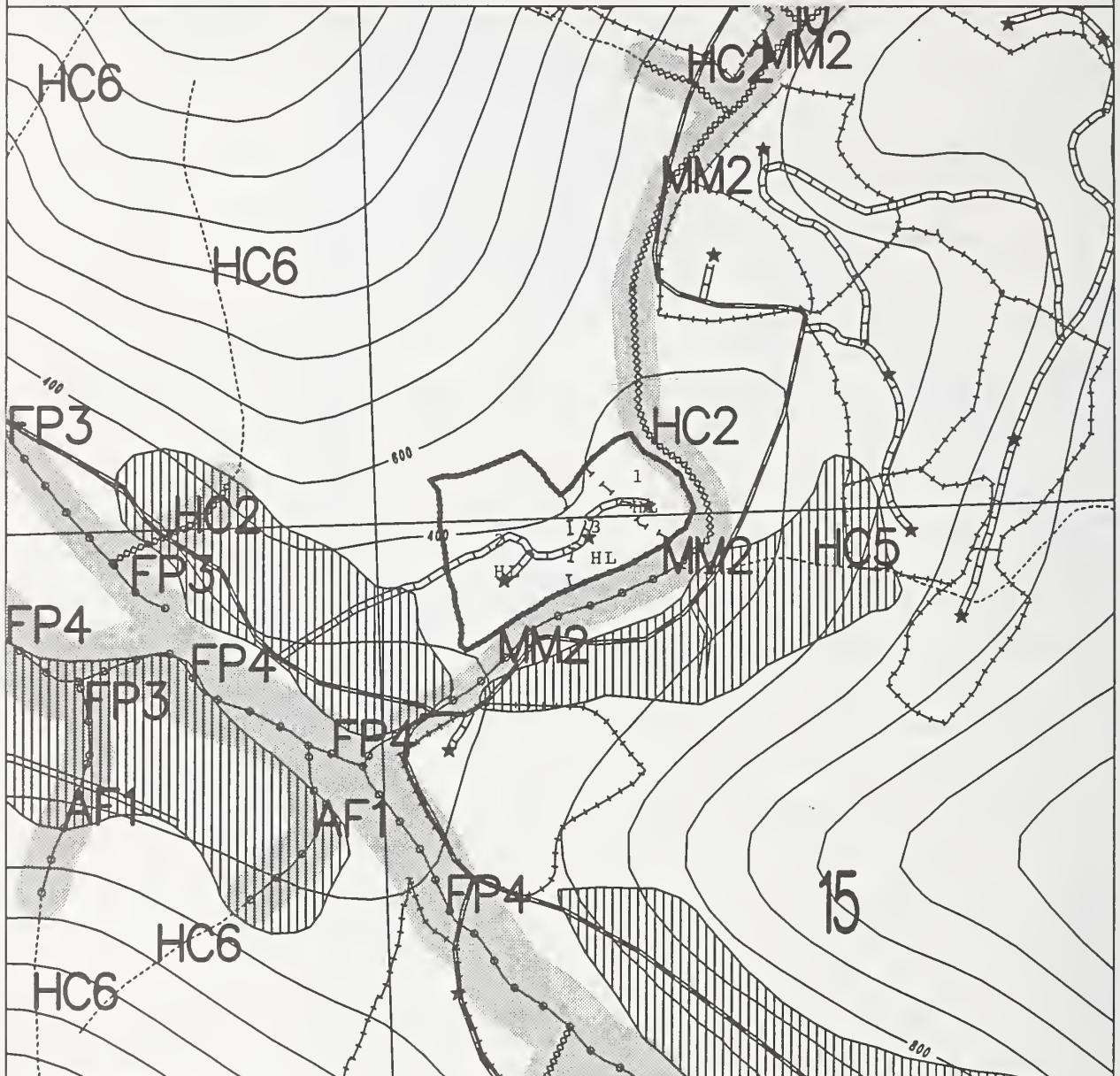
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9021

PLANNED HARVEST UNIT MAP

ACRES: 25 VOLUME: 760 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-27 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUPPER

July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9022</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>47</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1412</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>SL</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-28</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 22 acres VC6 6 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 10 acres 1200-1500 ft. 10 acres over 1500 ft. 13 acres
Mass movement index: Low 1 acres Medium 6 acres High 40 acres Very High 0 acres
Cedar 0 Hemlock 41 Mixed 6 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 47 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 39 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

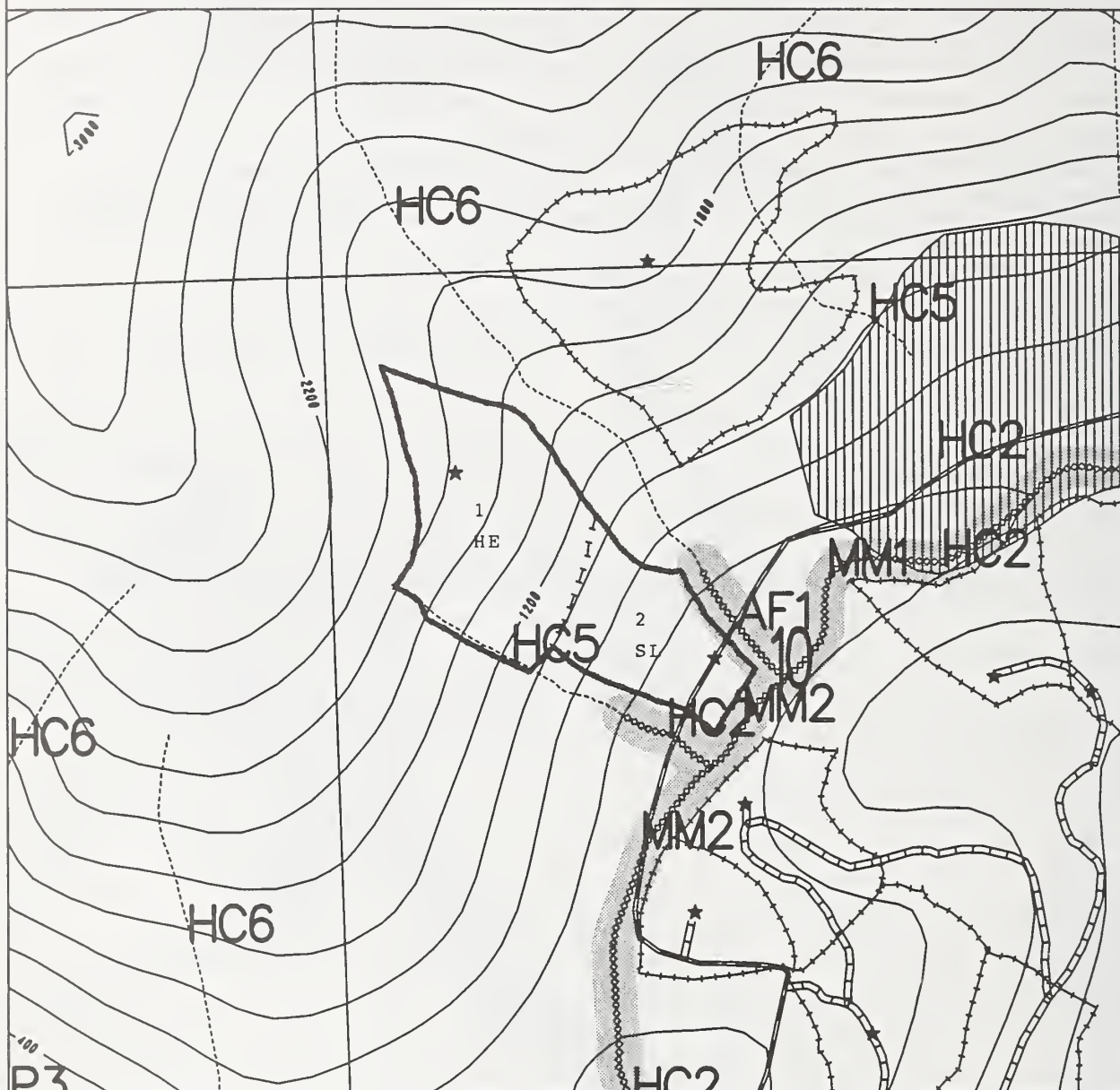
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9022

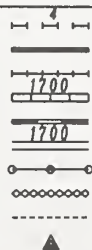
PLANNED HARVEST UNIT MAP

ACRES: 47 VOLUME: 1412 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-28 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9023</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>49</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1712</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 31 acres VC6 18 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 29 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 32 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 35 Mixed 14 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 49 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.25 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

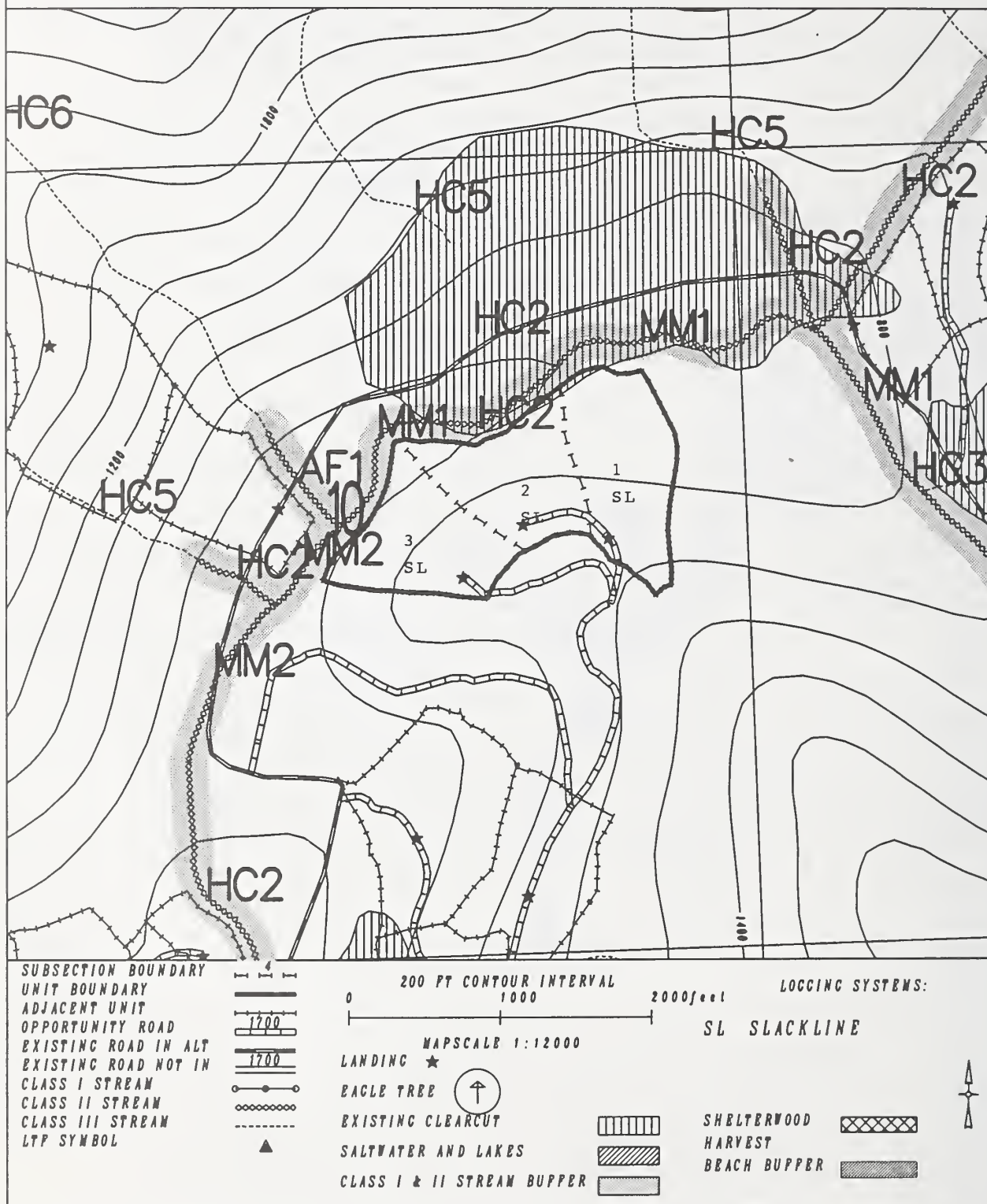
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9023

PLANNED HARVEST UNIT MAP

ACRES: 49 VOLUME: 1712 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9024</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>31</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1122</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 14 acres VC6 16 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 26 acres over 1500 ft. 0 acres
Mass movement index: Low 7 acres Medium 23 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 15 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 8 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction on 1.16 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

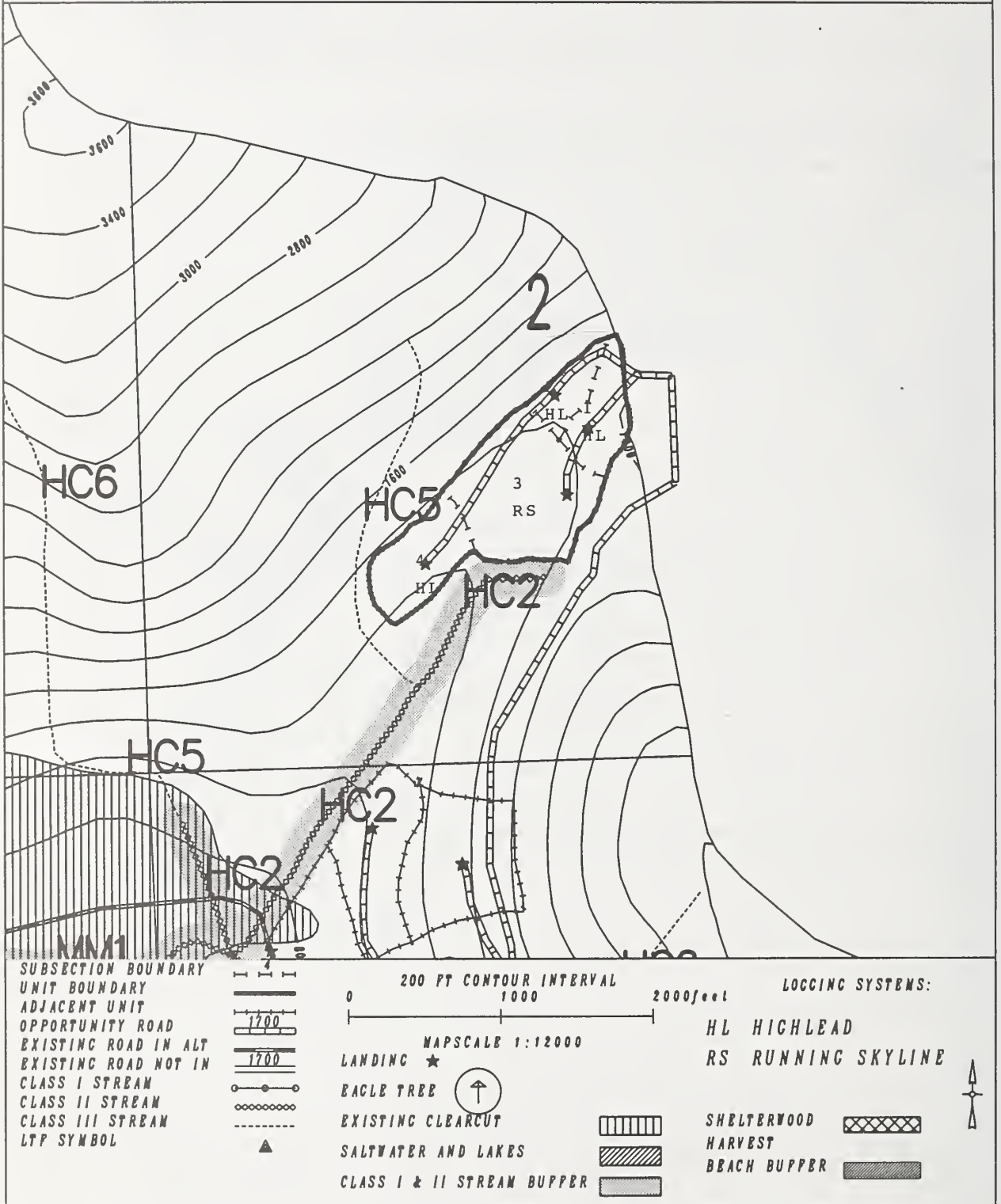
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9024

PLANNED HARVEST UNIT MAP

ACRES: 31 VOLUME: 1122 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-61 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9025</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>907</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>MHC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 30 acres VC5 5 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 19 acres 1200-1500 ft. 10 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 35 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 34 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.70 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

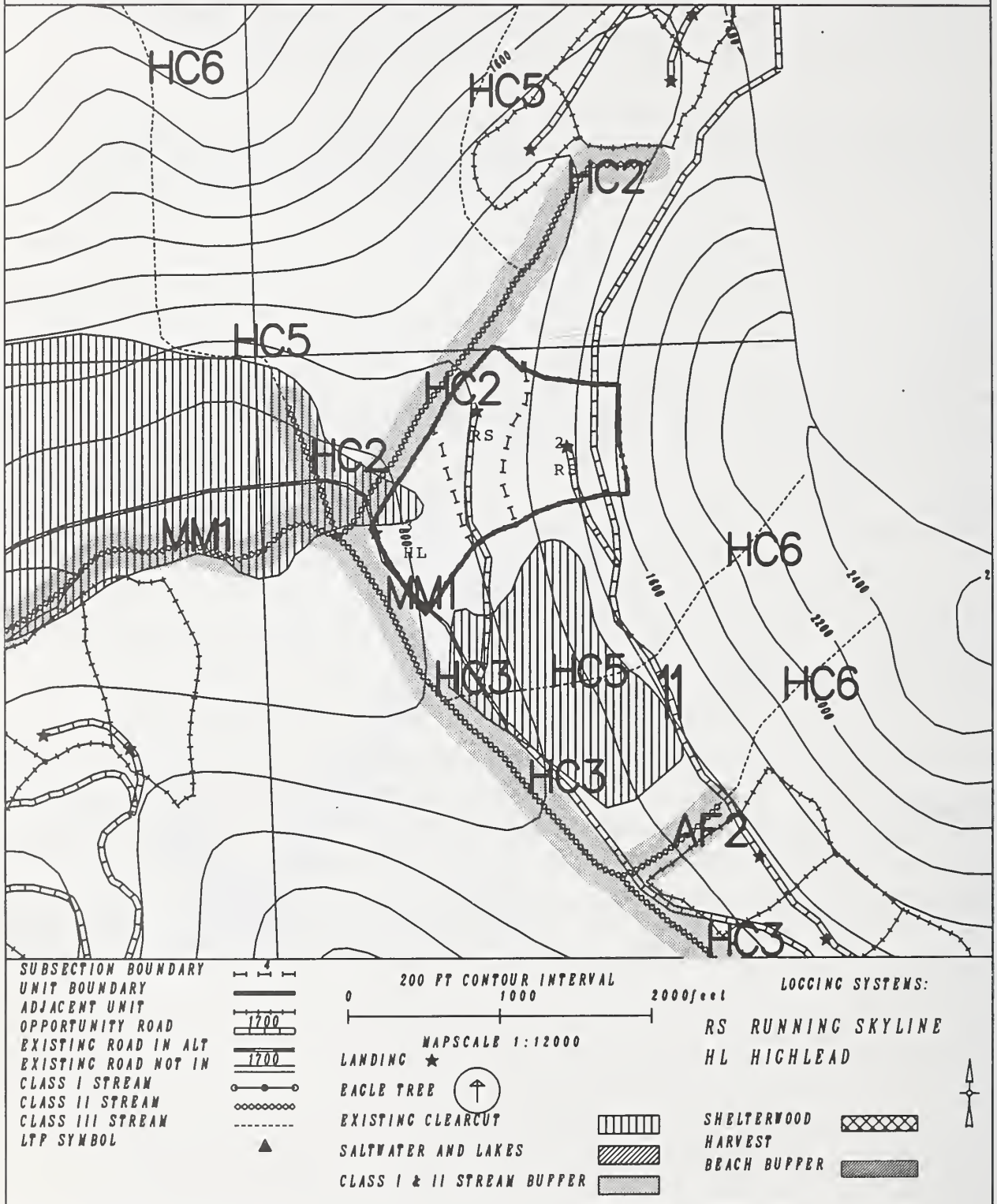
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9025

PLANNED HARVEST UNIT MAP

ACRES: 35 VOLUME: 907 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-61 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9026</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 5 6</u>	VQO <u>MM</u>
Planned acres <u>38</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>957</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 37 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 10 acres 1200-1500 ft. 24 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 10 acres High 28 acres Very High 0 acres
Cedar 0 Hemlock 37 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 38 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.32 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

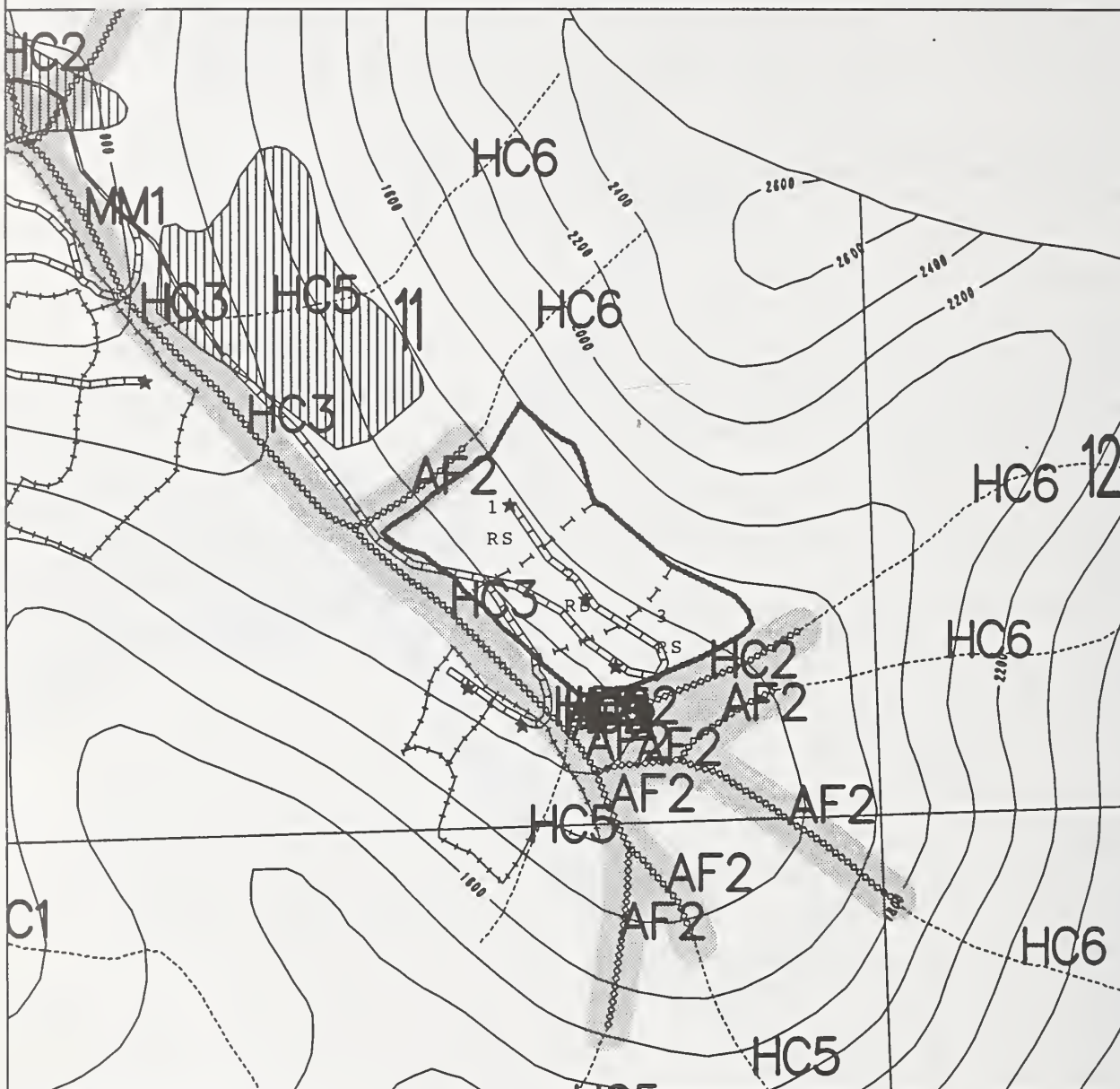
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9026

PLANNED HARVEST UNIT MAP

ACRES: 38 VOLUME: 957 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9027</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>63</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1880</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 48 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 34 acres 800-1200 ft. 29 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 14 acres Medium 42 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 63 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 63 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Replanting of sitka spruce should be considered.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.19 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

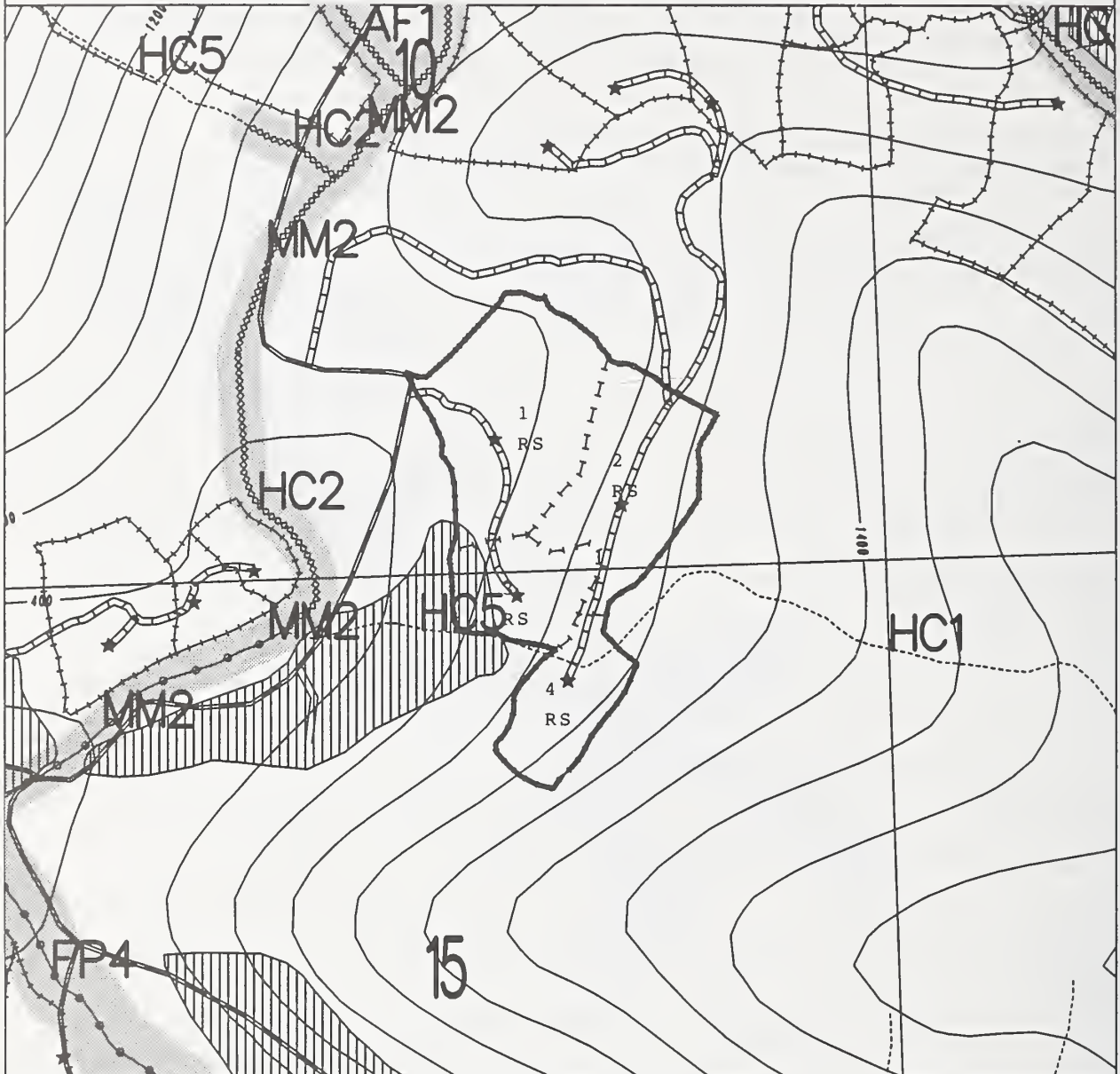
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9027

PLANNED HARVEST UNIT MAP

ACRES: 63 VOLUME: 1880 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



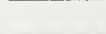
SHELTERWOOD



HARVEST



BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9028</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 6</u>	VQO <u>MM</u>
Planned acres <u>23</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>722</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>SSR</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-27</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 23 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 23 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 17 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 7 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 3 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Replanting of sitka spruce should be considered.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.59 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

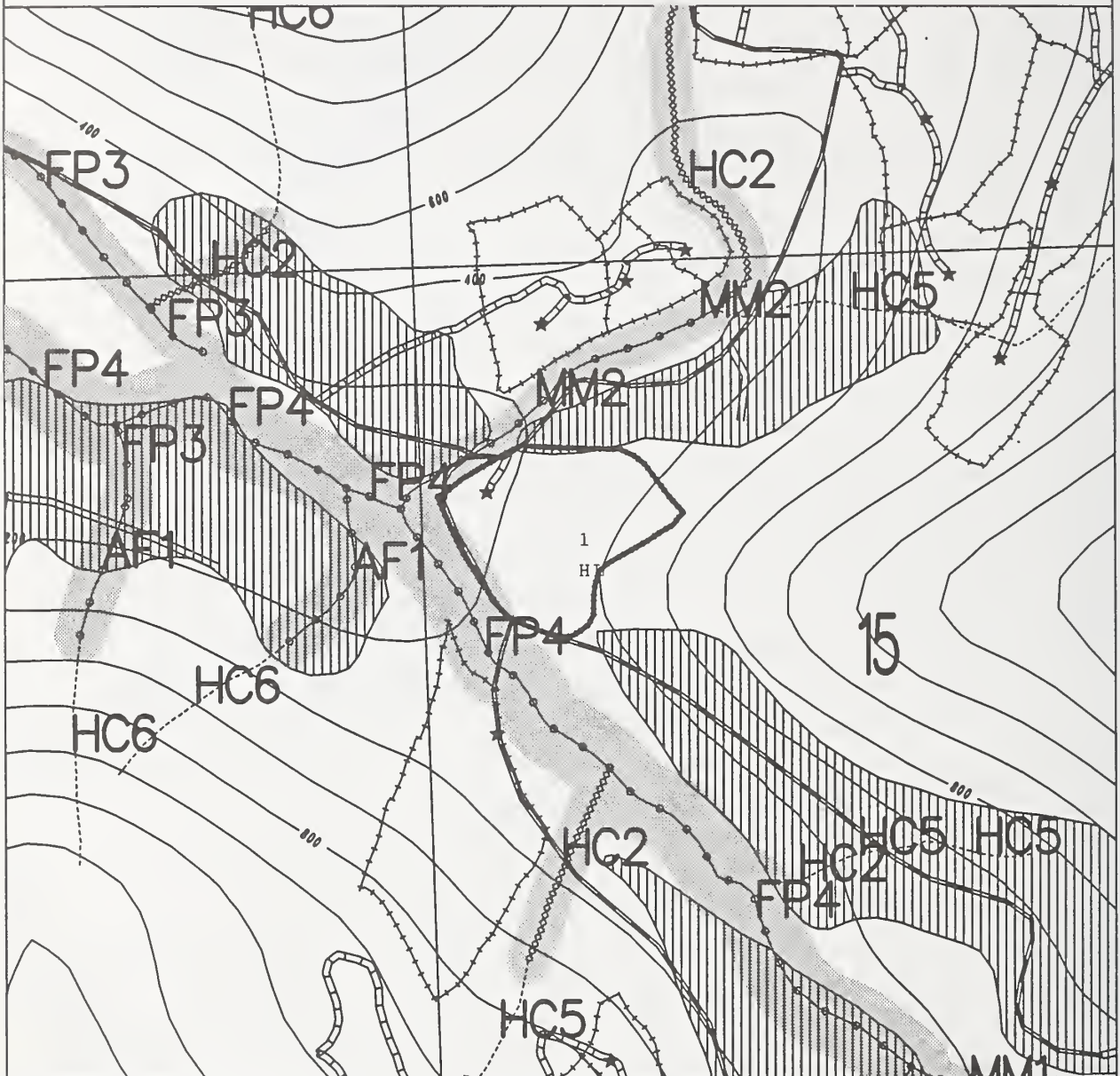
VCU: 7390

UNIT NUMBER: 9028

PLANNED HARVEST UNIT MAP

ACRES: 23 VOLUME: 722 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-27 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER

SHELTERWOOD

HARVEST

BEACH BUFFER

July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9030</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>57</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1744</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-66</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 50 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 22 acres 800-1200 ft. 16 acres 1200-1500 ft. 15 acres over 1500 ft. 4 acres
Mass movement index: Low 48 acres Medium 0 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 56 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 57 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 41 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

Oversteepened slopes may require full bench construction on 0.16 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

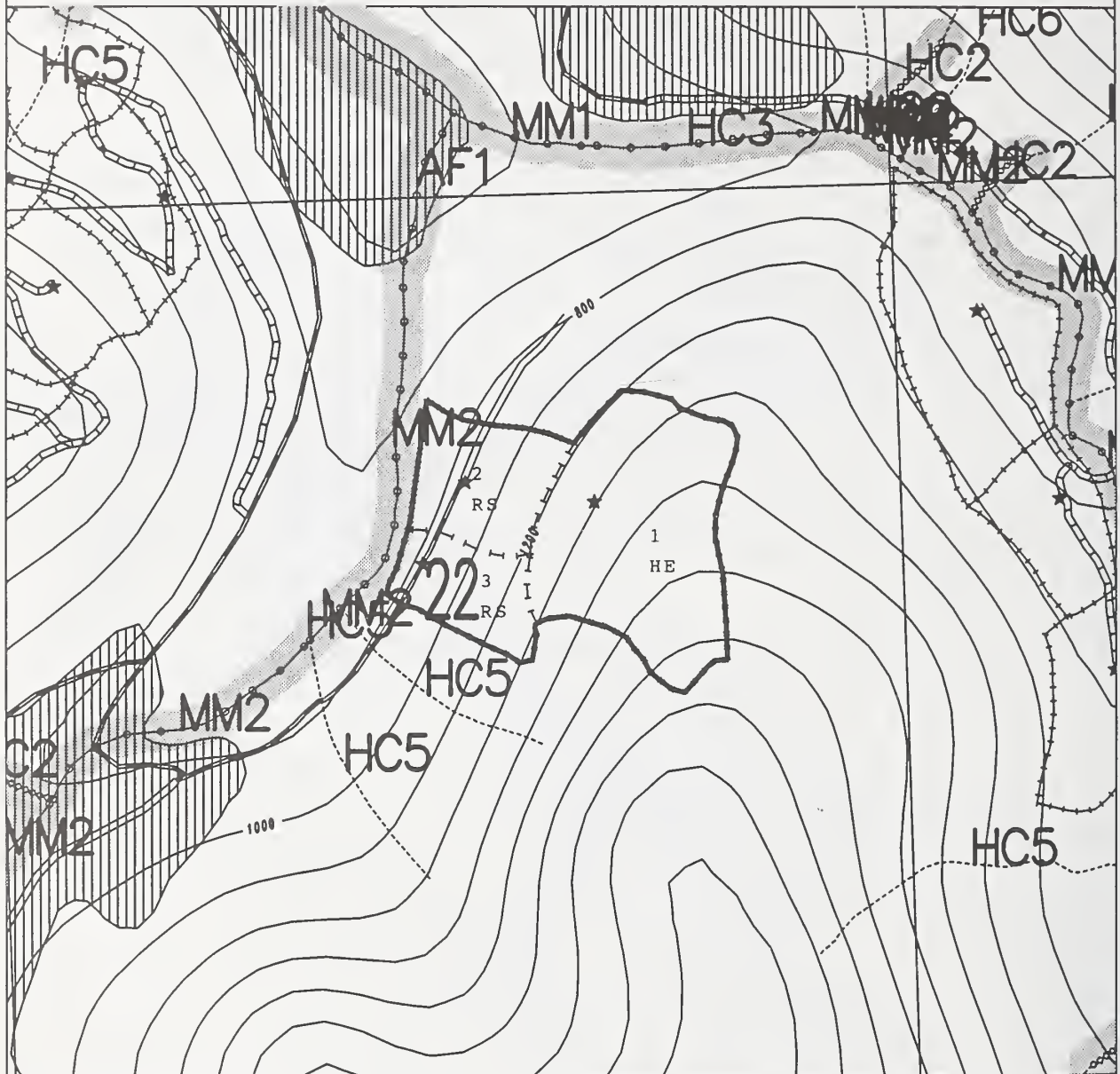
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9030

PLANNED HARVEST UNIT MAP

ACRES: 57 VOLUME: 1744 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-66 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER

July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9031</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 5 6</u>	VQO <u>MM</u>
Planned acres <u>52</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1651</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-66</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 50 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 34 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 12 acres Medium 14 acres High 26 acres Very High 0 acres
Cedar 0 Hemlock 50 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 52 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

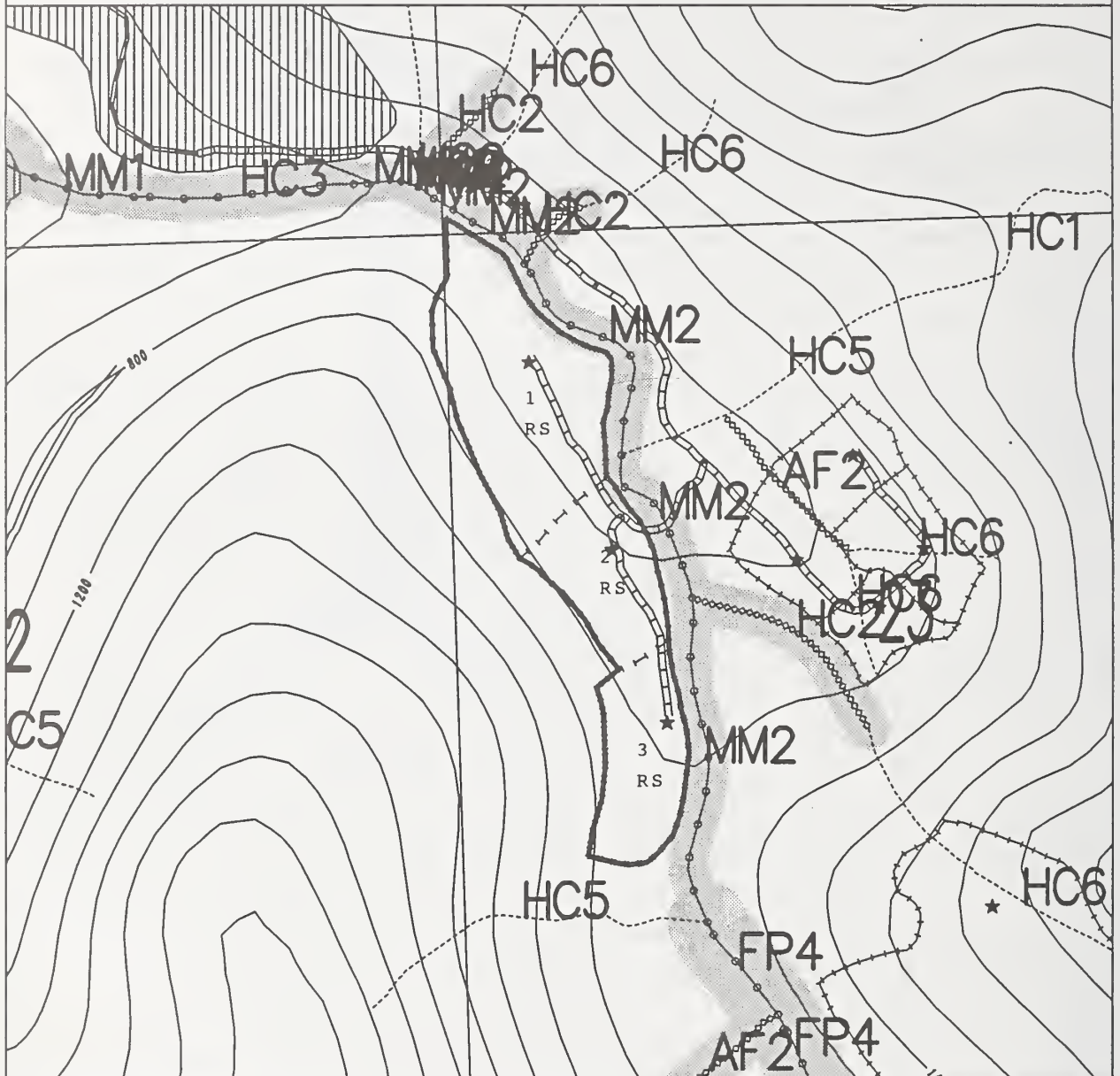
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9031

PLANNED HARVEST UNIT MAP

ACRES: 52 VOLUME: 1651 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-66 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9032</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>43</u>		Quad <u>KTNC5NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1305</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-66</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 43 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 32 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 40 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 7 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.03 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

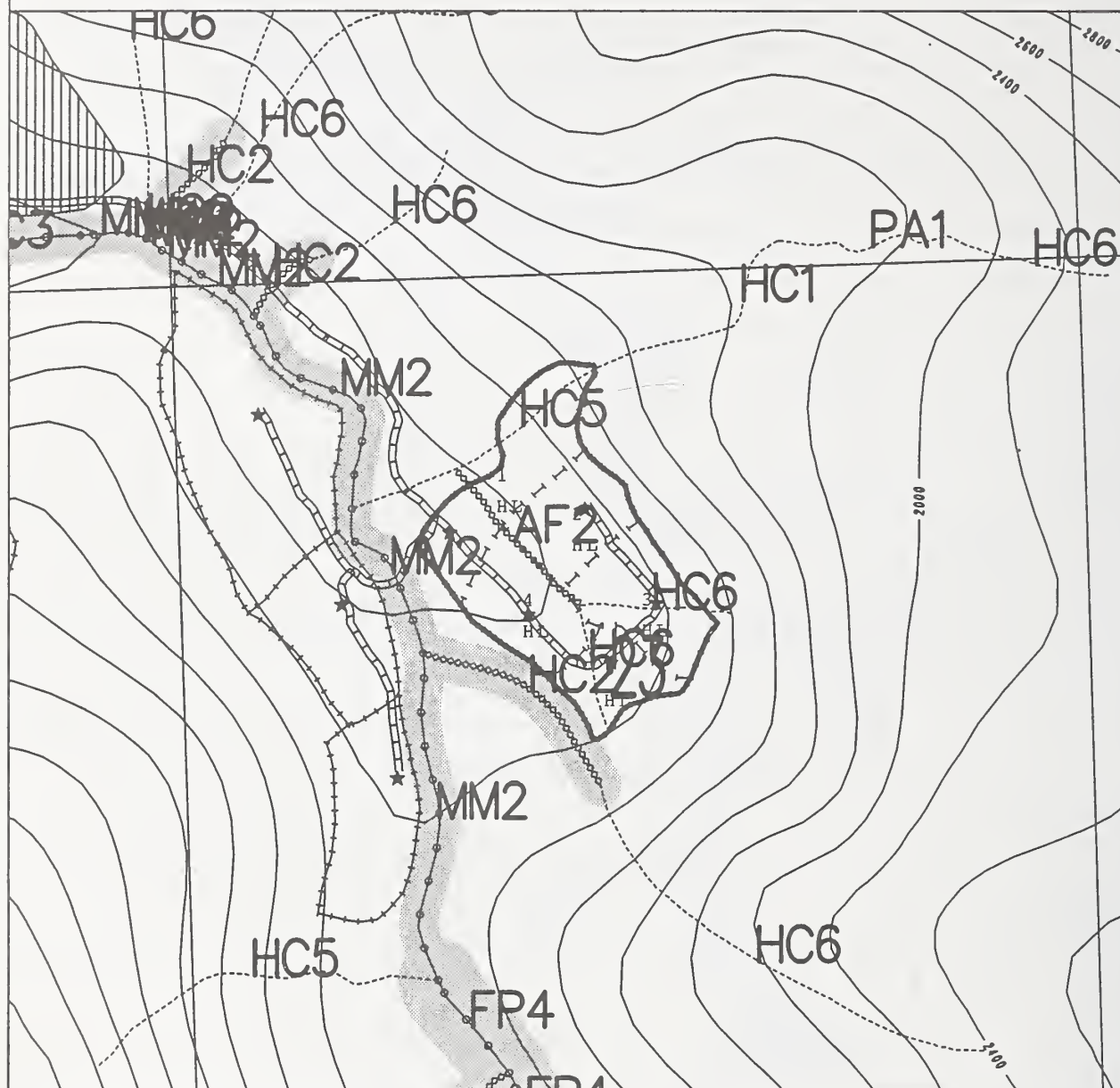
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9032

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1305 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-66 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUPPER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9033</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>16</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>540</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-25</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 12 acres VC6 4 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 9 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

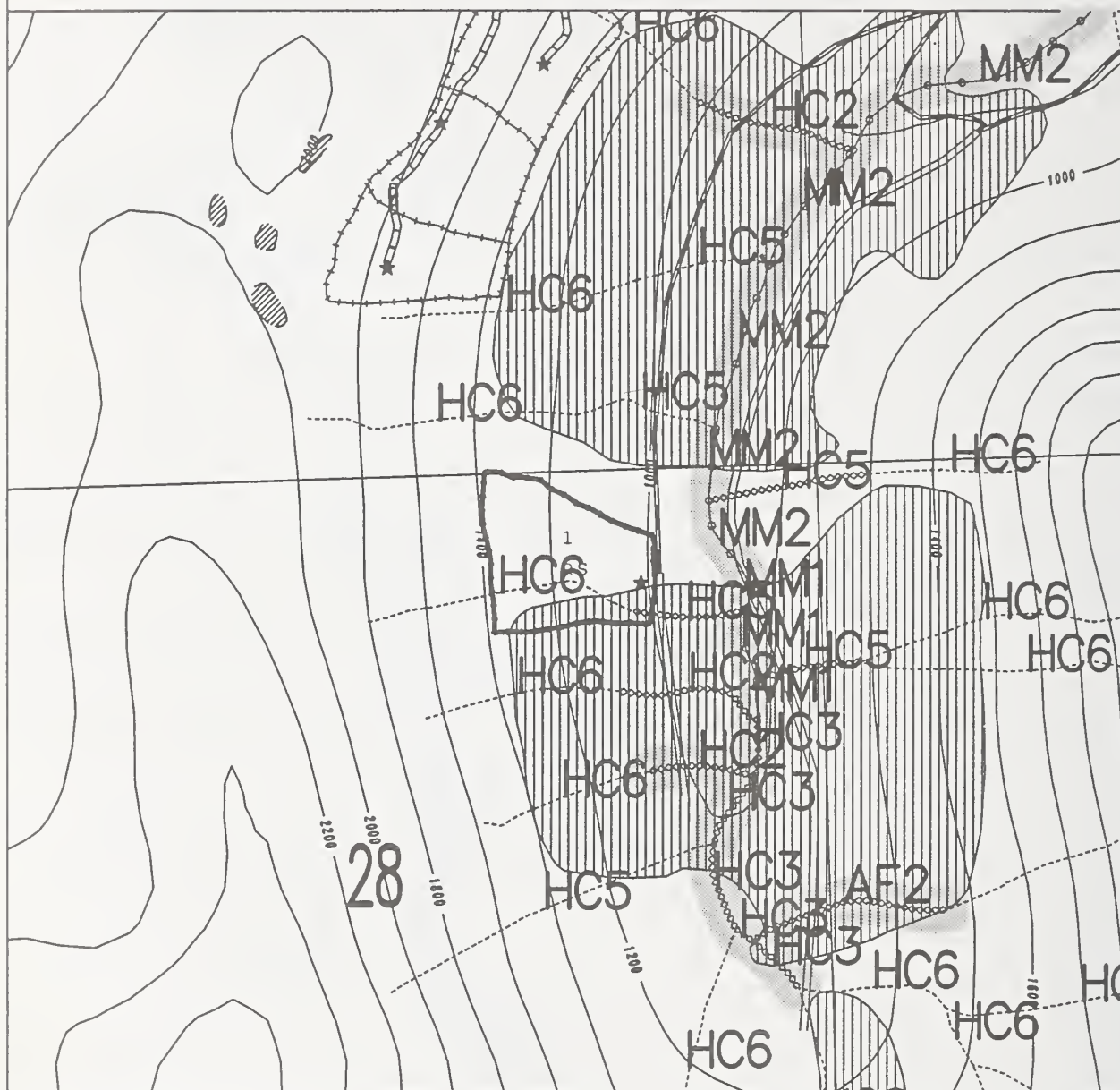
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9033

PLANNED HARVEST UNIT MAP

ACRES: 16 VOLUME: 540 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-25 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 05, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9034</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>36</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1103</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 32 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 23 acres 800-1200 ft. 0 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 12 acres High 24 acres Very High 0 acres
Cedar 0 Hemlock 35 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.37 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 36 VOLUME: 1103 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

[illegible]

MAPSCALE 1:12000

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RS RUNNING SKYLINE

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9035</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>16</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>502</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>MHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

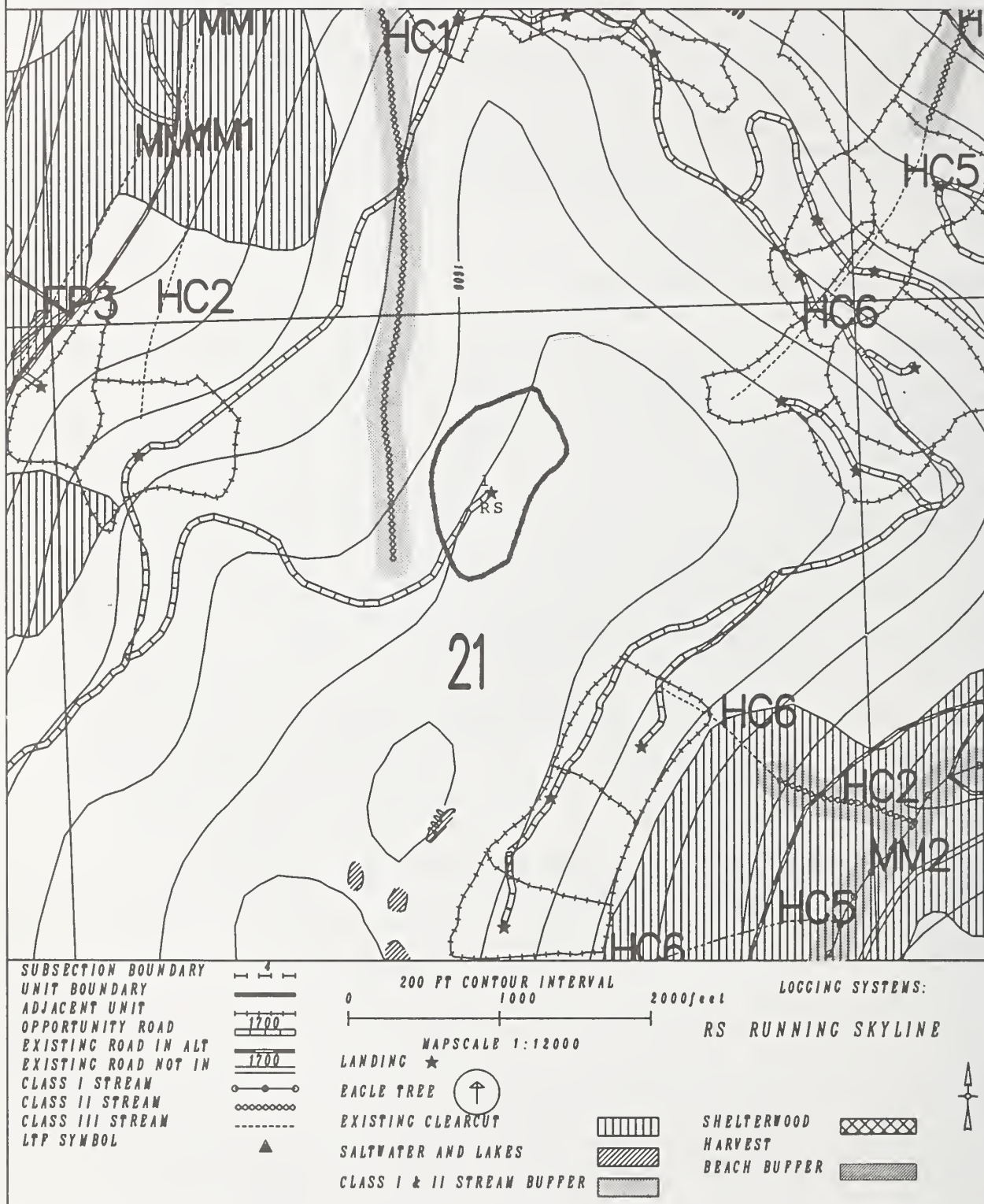
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9035

PLANNED HARVEST UNIT MAP

ACRES: 16 VOLUME: 502 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9036</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>26</u>	Quad <u>KTNC5NEN</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>758</u>	Mgmt Area <u>K32</u> VCU <u>7390</u>		Plant Series <u>WHS</u>
Logging methods <u>HL</u>	WAA <u>510</u>		Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1279-26</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 17 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 9 acres 1200-1500 ft. 16 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 26 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 16 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 26 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9036

PLANNED HARVEST UNIT MAP

ACRES: 26

VOLUME: 758

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1279-26

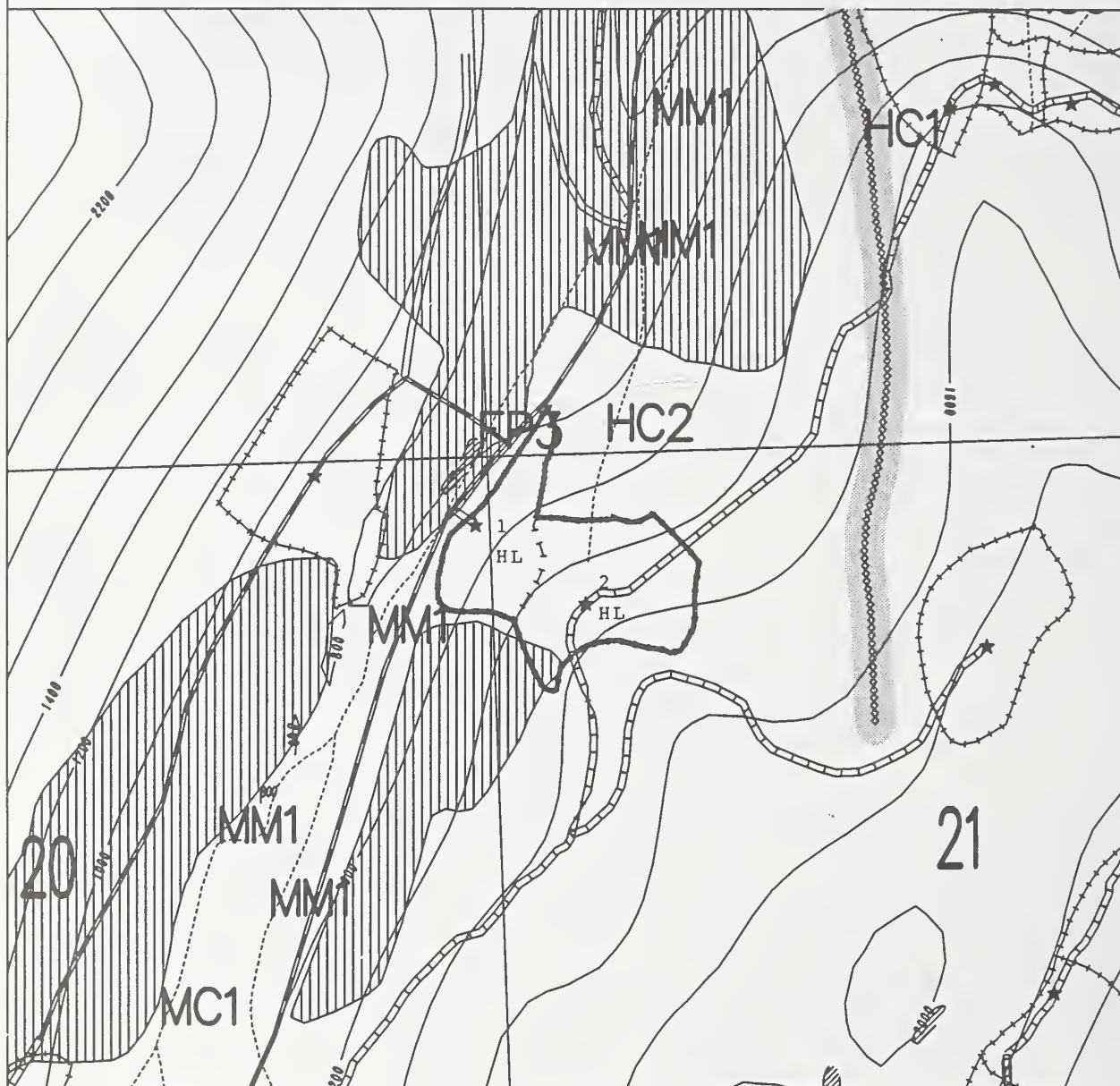
LANDNET INFO

TOWNSHIP

71S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9037</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>21</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>659</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 5 acres 800-1200 ft. 16 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 5 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 5 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.03 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

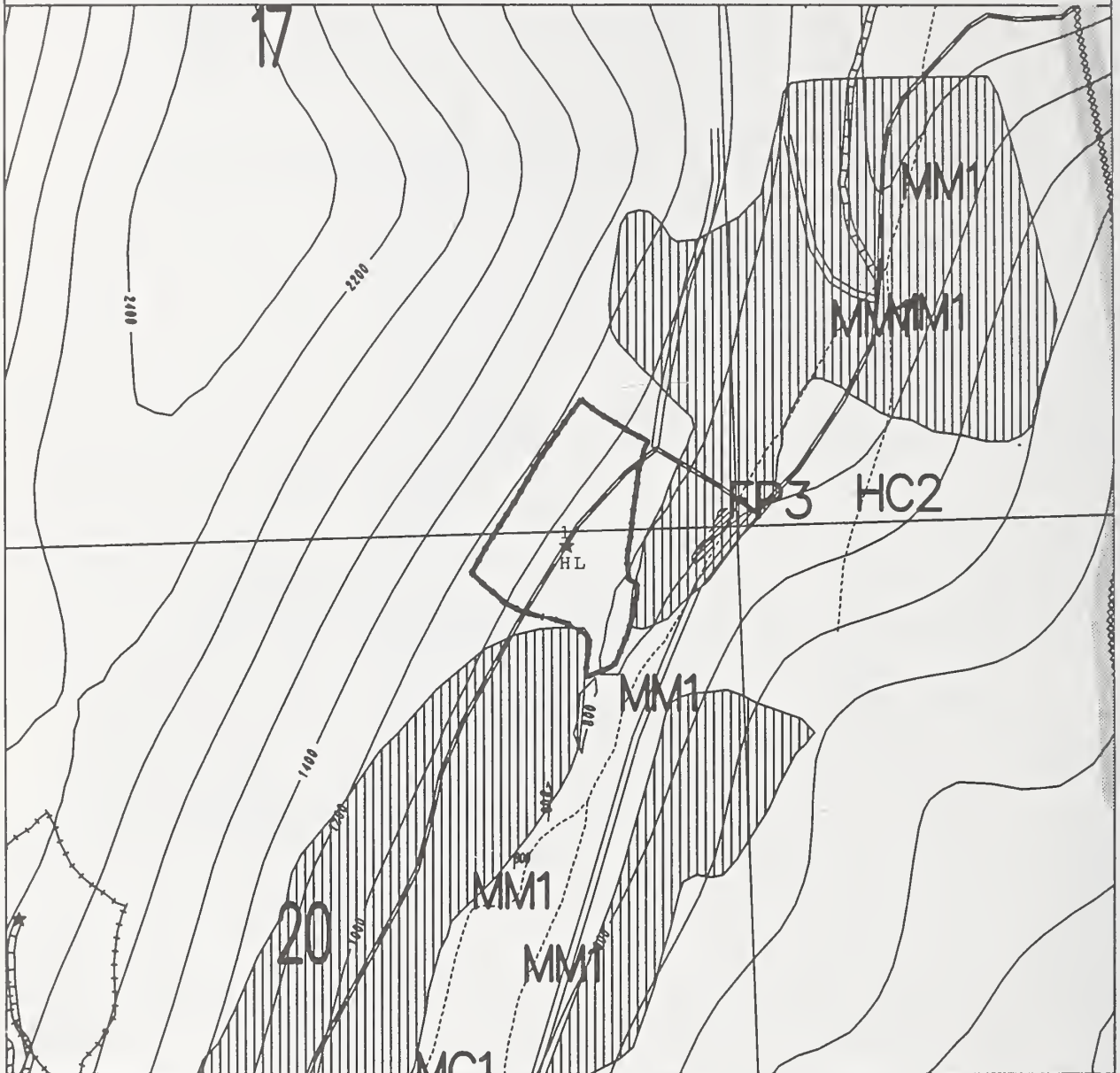
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9037

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 659 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-13 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9038</u>	No. Settings <u>6</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>114</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3377</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-14</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 31 acres VC5 83 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 49 acres 800-1200 ft. 15 acres 1200-1500 ft. 11 acres over 1500 ft. 39 acres
Mass movement index: Low 2 acres Medium 11 acres High 101 acres Very High 0 acres
Cedar 0 Hemlock 109 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 114 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.69 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

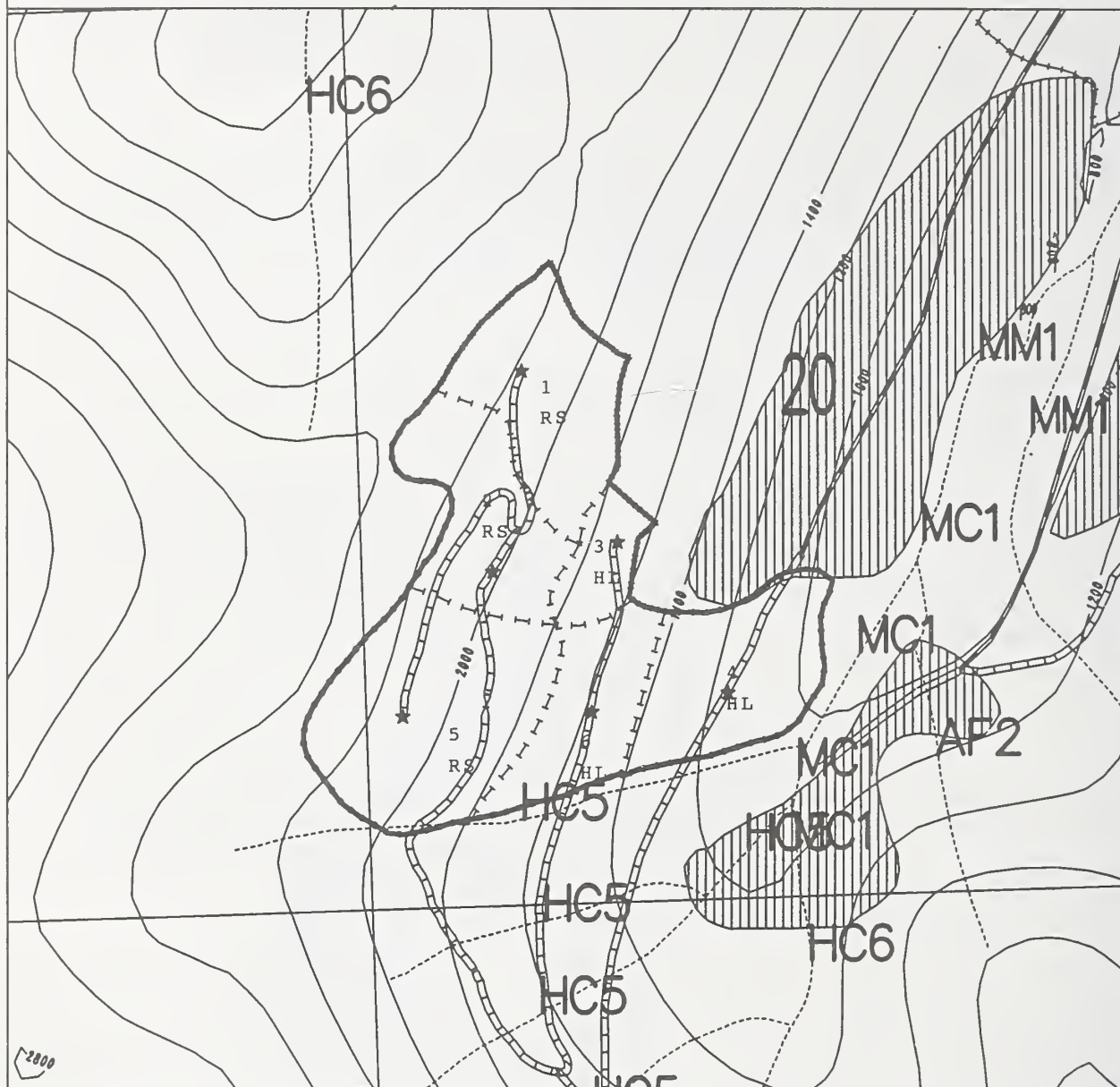
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9038

PLANNED HARVEST UNIT MAP

ACRES: 114 VOLUME: 3377 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-14 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HICHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9039</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>69</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2269</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 58 acres VC6 11 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 7 acres 1200-1500 ft. 30 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 61 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 69 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 69 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 68 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 69 VOLUME: 2269 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-11 LANDNET INFO TOWNSHIP 71S RANGE 91E

This topographic map shows the study area with contour lines indicating elevation. Key features include:

- Contour lines labeled 1800, 2000, and 2100.
- Locations marked HC1, HC3, HC6, and HE.
- A shaded area near HC3.
- A star symbol near HE.

MAPSCALE 1:12000



THE HELICOPTER

SHELTERWOOD 
HARVEST
BEACH BUFFER 

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9040</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3</u>	VQO <u>MM</u>
Planned acres <u>40</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1266</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 34 acres VC6 3 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 25 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 40 acres Very High 0 acres
Cedar 0 Hemlock 3 Mixed 37 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 40 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 39 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

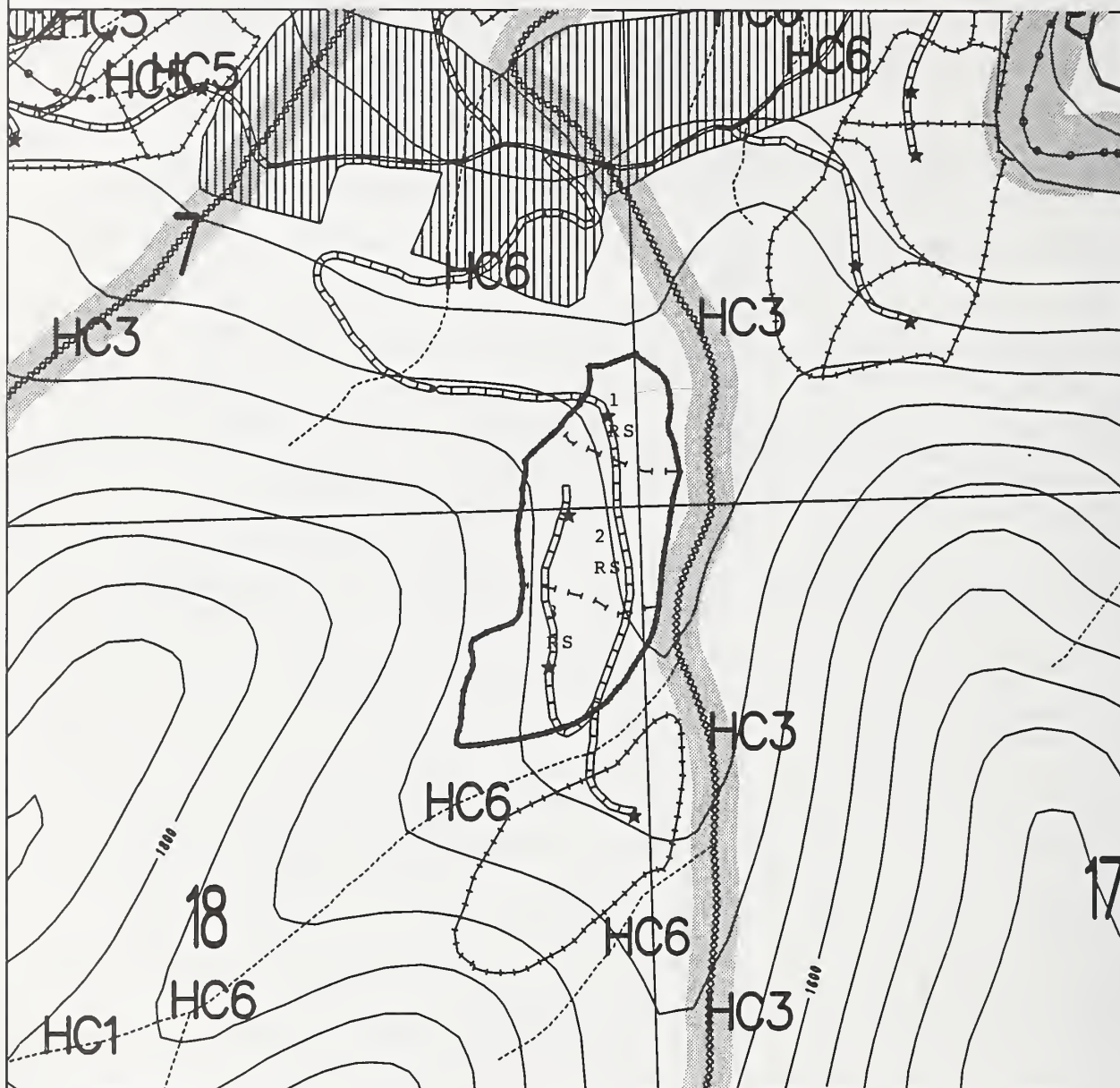
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9040

PLANNED HARVEST UNIT MAP

ACRES: 40 VOLUME: 1266 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (up arrow symbol)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9041</u>	No. Settings <u>2</u>	Alternatives considered <u>2 3</u>	VQO <u>MM</u>
Planned acres <u>19</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>673</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 11 acres VC6 8 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 19 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 17 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 7 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9041

PLANNED HARVEST UNIT MAP

ACRES: 19VOLUME: 673

MBP

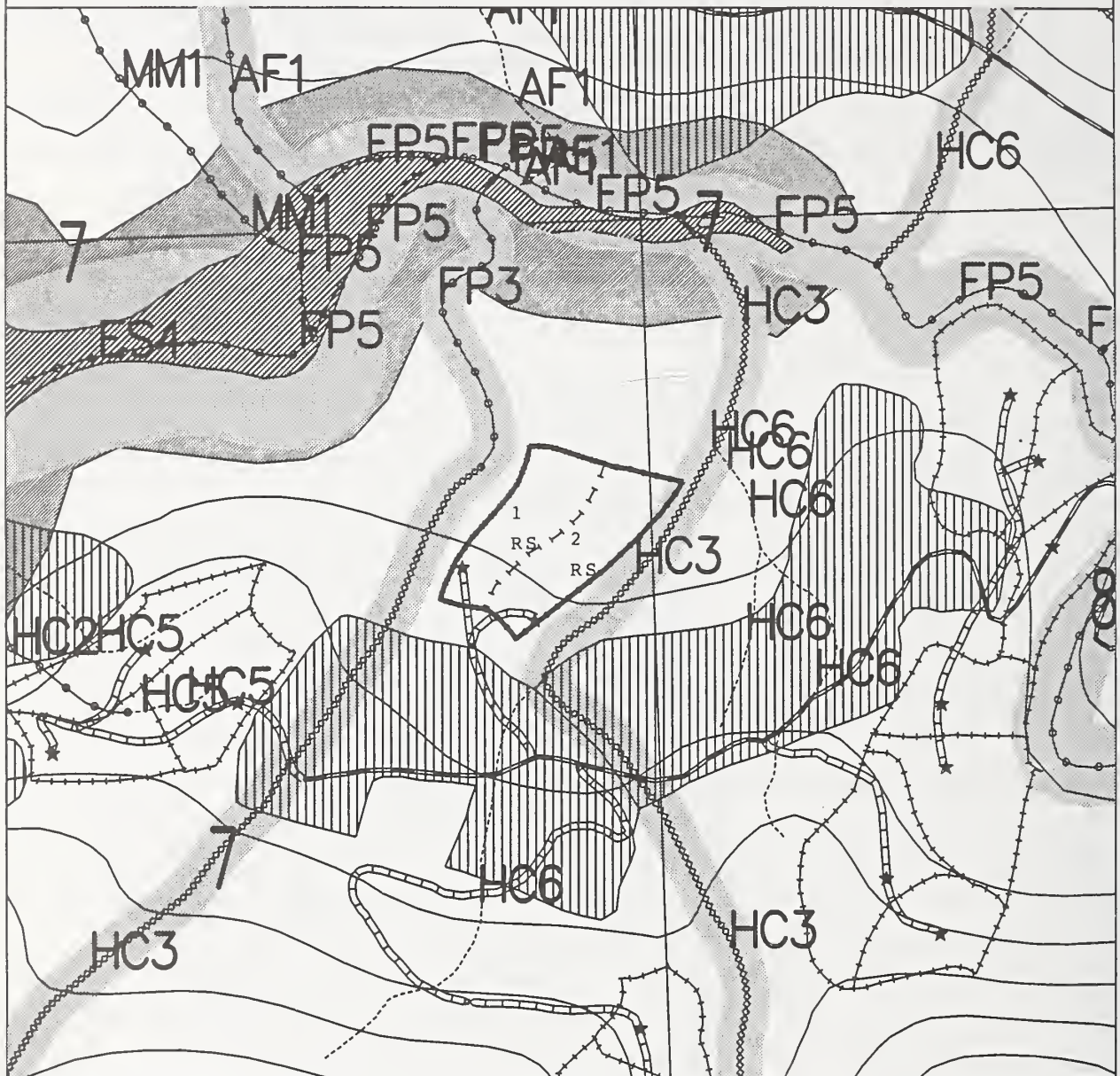
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1279-10

LANDNET INFO

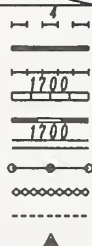
TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 12, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9042</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>19</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>655</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 13 acres VC6 6 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 10 acres 1200-1500 ft. 3 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 19 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 18 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.59 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

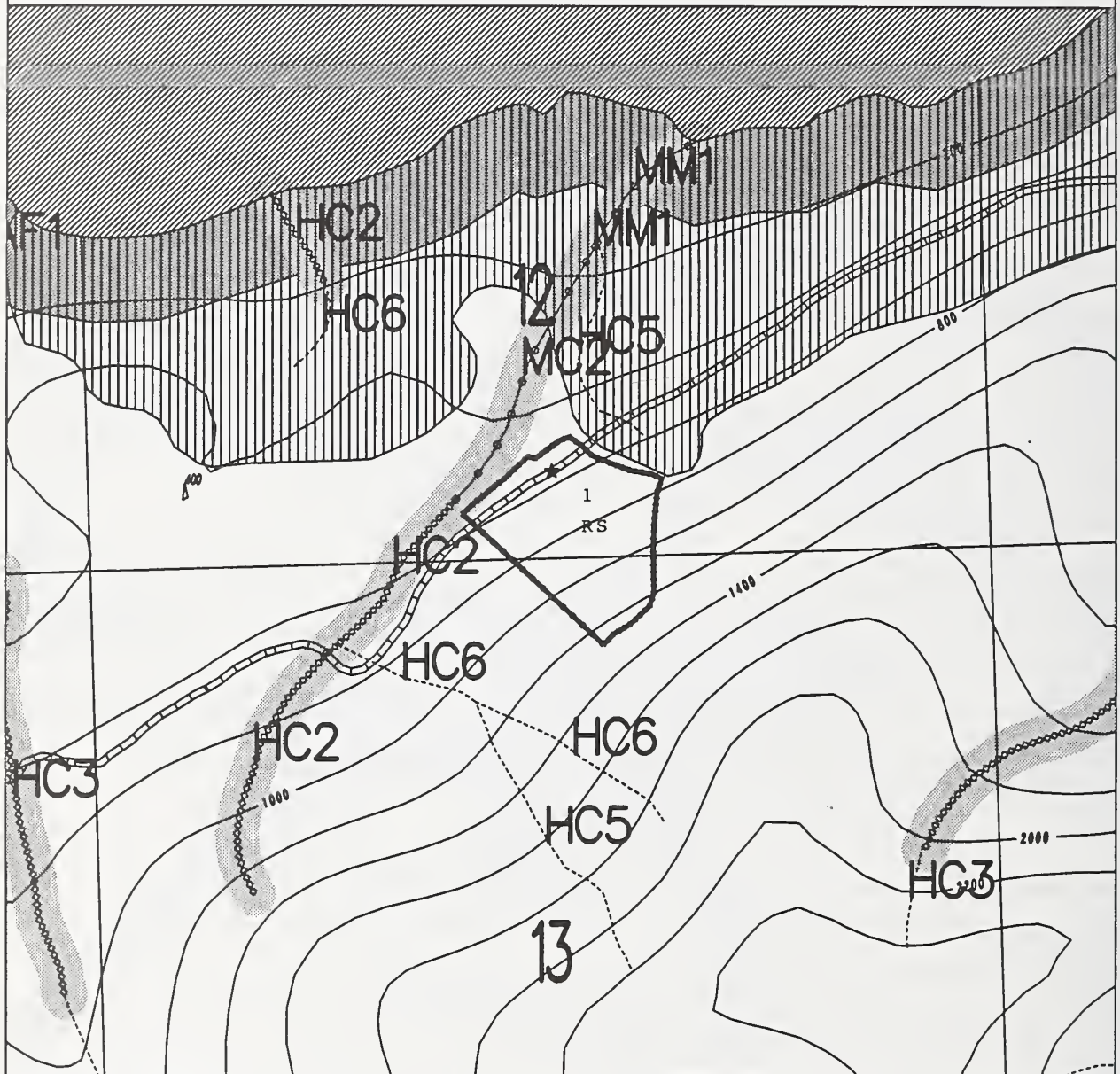
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9042

PLANNED HARVEST UNIT MAP

ACRES: 19 VOLUME: 655 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 71S RANCR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 BACLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUPPER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9043</u>	No. Settings <u>2</u>	Alternatives considered <u>2 3</u>	VQO <u>M</u>
Planned acres <u>21</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>634</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 17 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 21 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 19 acres Very High 2 acres
Cedar 0 Hemlock 20 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.02 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

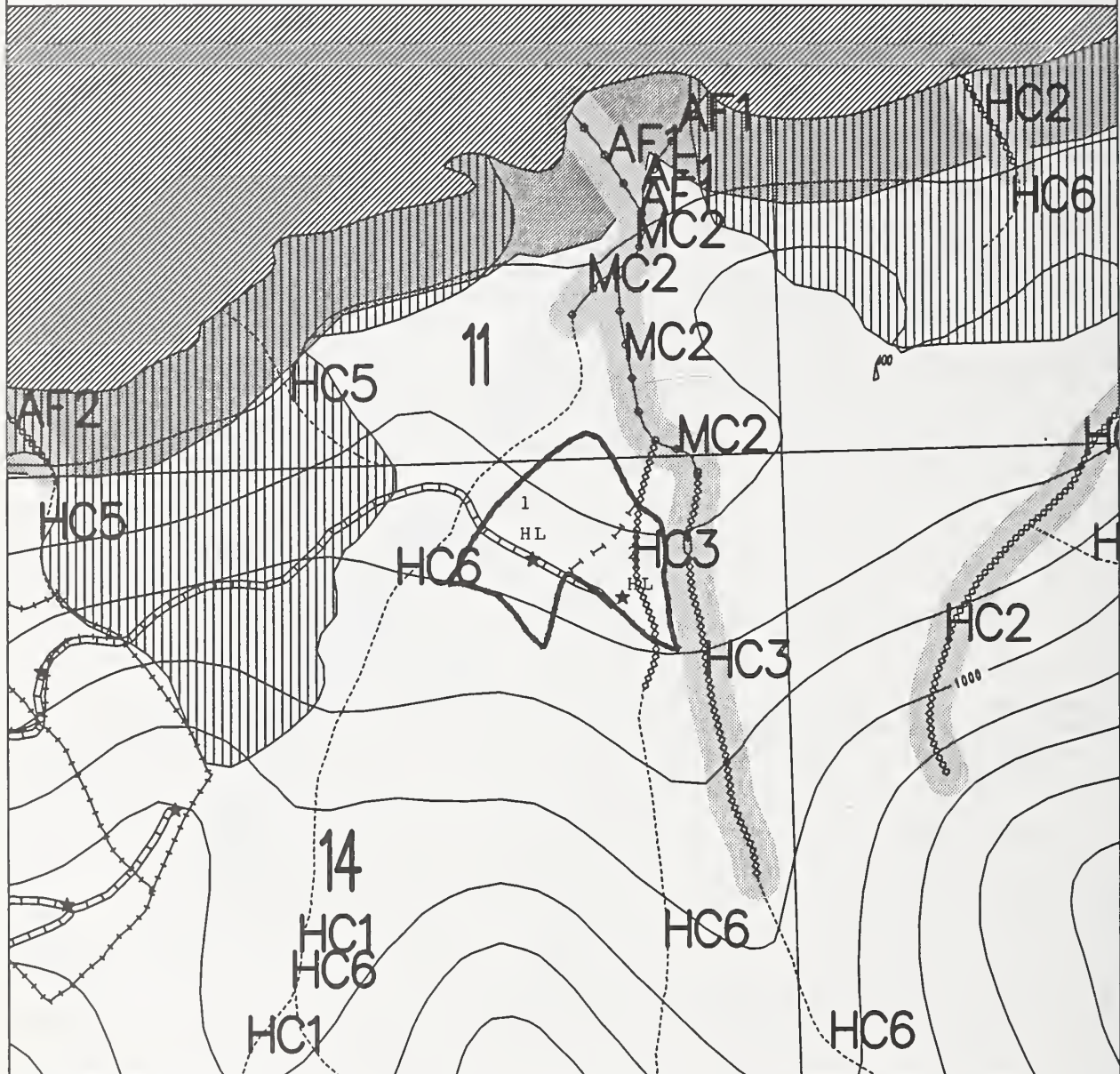
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9043

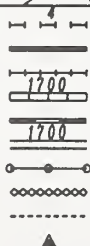
PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 634 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

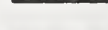
HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9044</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>70</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2730</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 13 acres VC6 56 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 22 acres 800-1200 ft. 27 acres 1200-1500 ft. 21 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 68 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 70 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 41 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.83 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9044

PLANNED HARVEST UNIT MAP

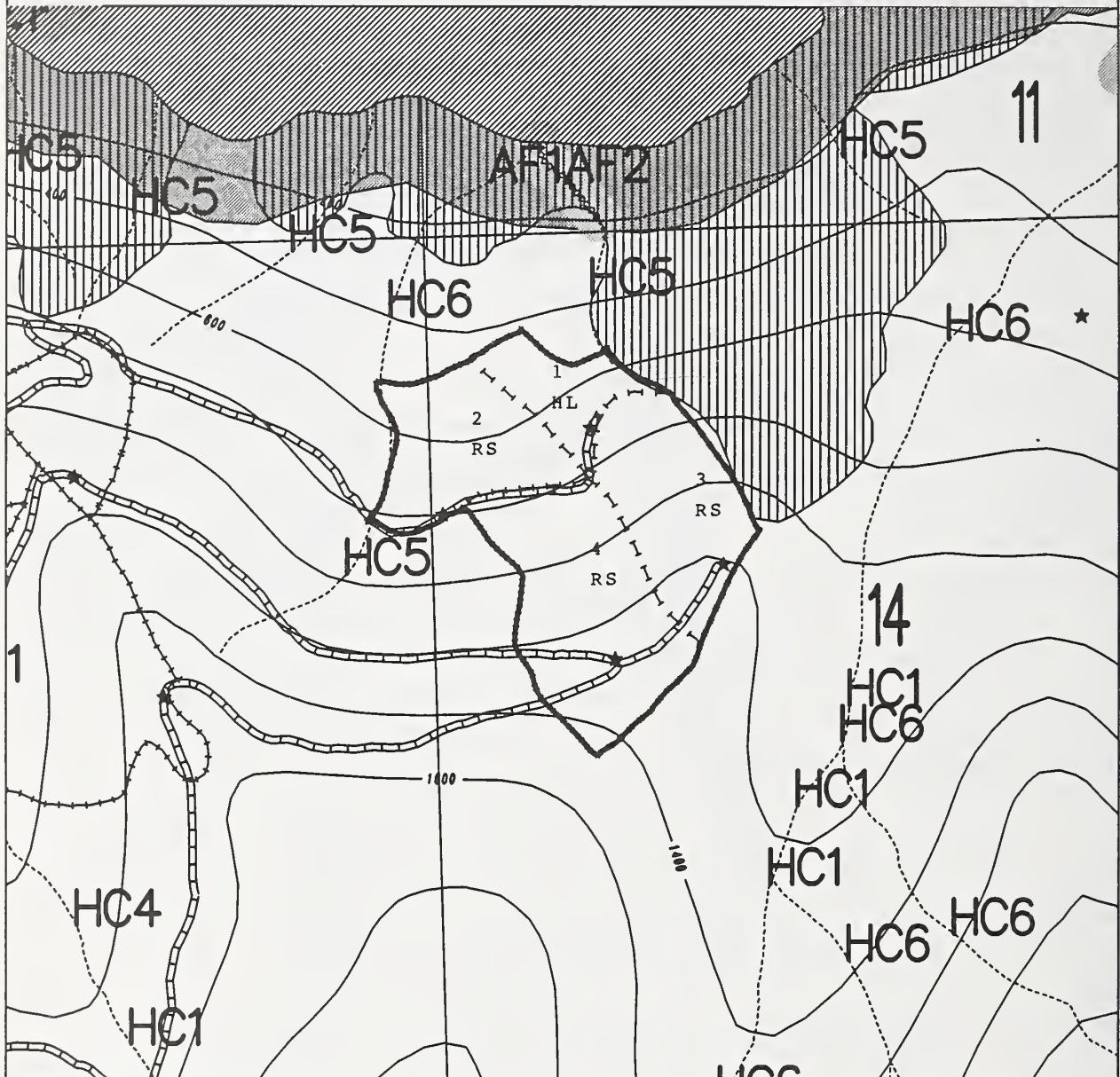
ACRES: 70VOLUME: 2730 MBPQUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-12

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

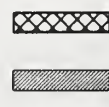
HL HIGH LEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9045</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>MM</u>
Planned acres <u>88</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2525</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 64 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 44 acres 1200-1500 ft. 26 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 28 acres High 44 acres Very High 0 acres
Cedar 0 Hemlock 85 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 59 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 42 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.07 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

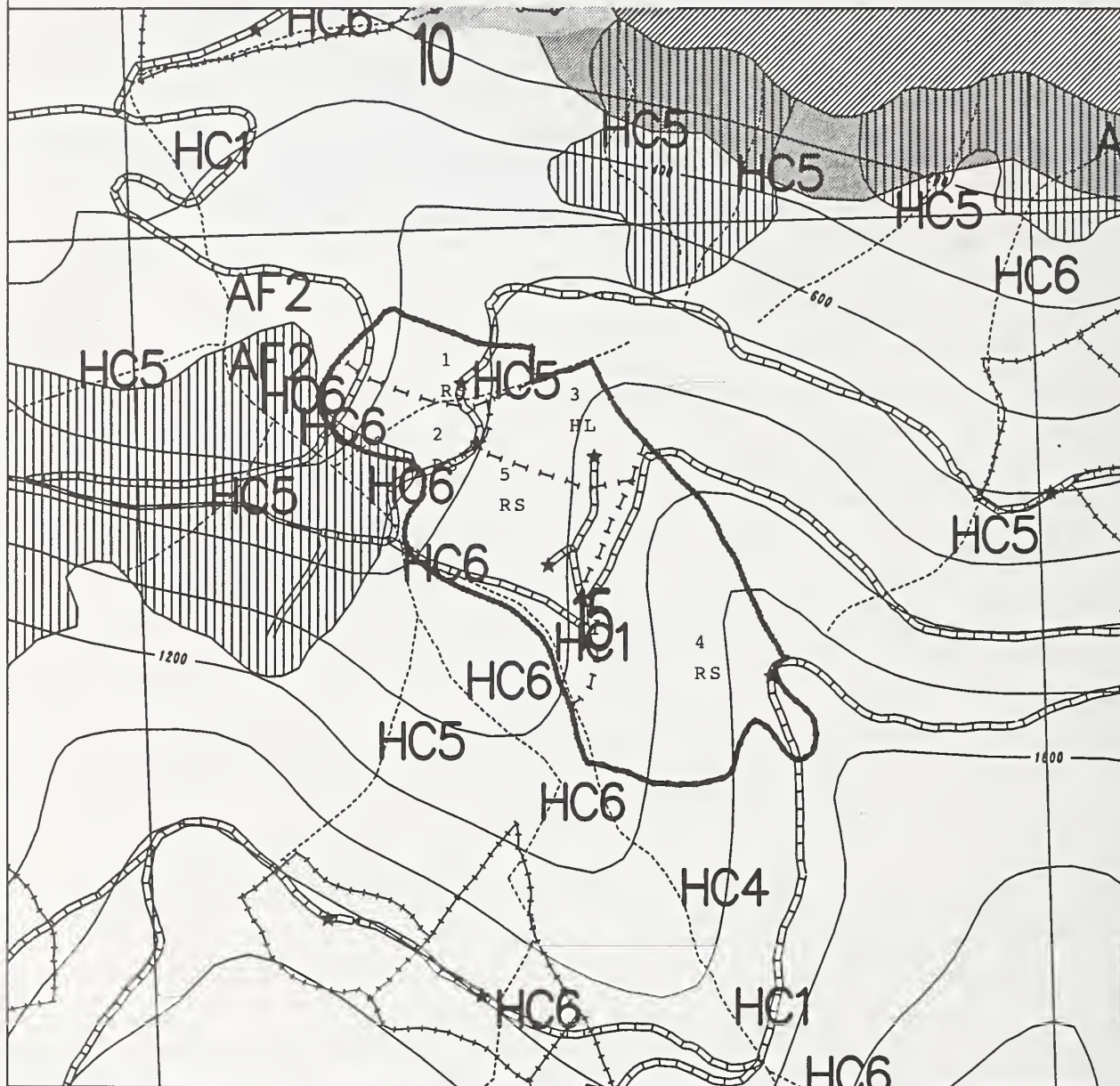
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9045

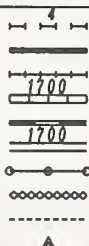
PLANNED HARVEST UNIT MAP

ACRES: 85 VOLUME: 2525 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9046</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>42</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1304</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 2 acres VC5 40 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 36 acres 800-1200 ft. 0 acres 1200-1500 ft. 6 acres over 1500 ft. 0 acres
Mass movement index: Low 9 acres Medium 33 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 41 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 9 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction on 0.36 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

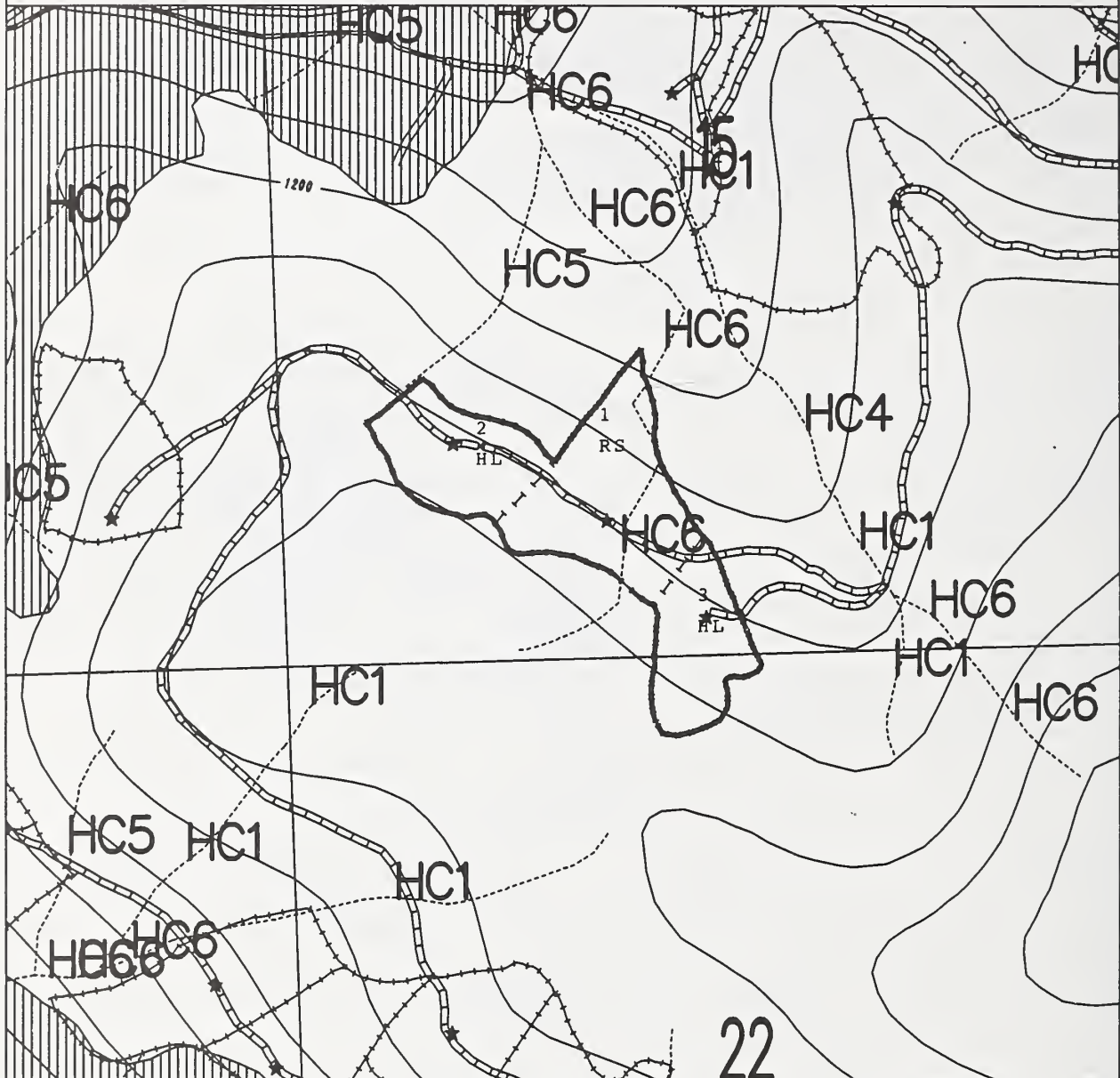
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9046

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1304 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9047</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>67</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2101</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 67 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 67 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 25 acres Medium 24 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 66 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 67 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 33 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.02 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

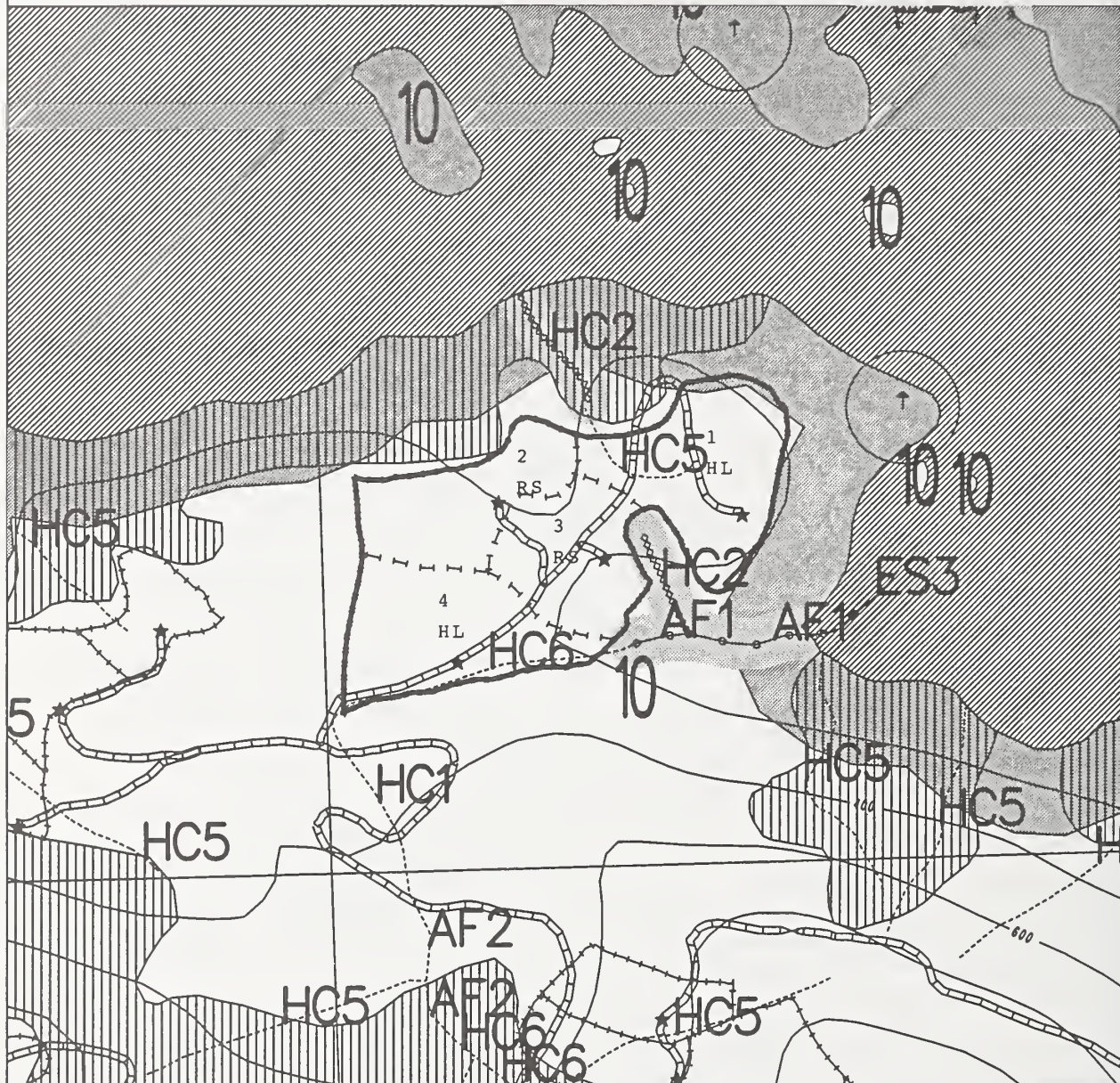
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9047

PLANNED HARVEST UNIT MAP

ACRES: 67 VOLUME: 2101 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9048</u>	No. Settings <u>5</u>	Alternatives considered <u>3</u>	VQO <u>PR</u>
Planned acres <u>65</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2039</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 65 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 65 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 57 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 51 Mixed 14 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 9 acres that may require partial or full suspension (BMP 13.9)
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

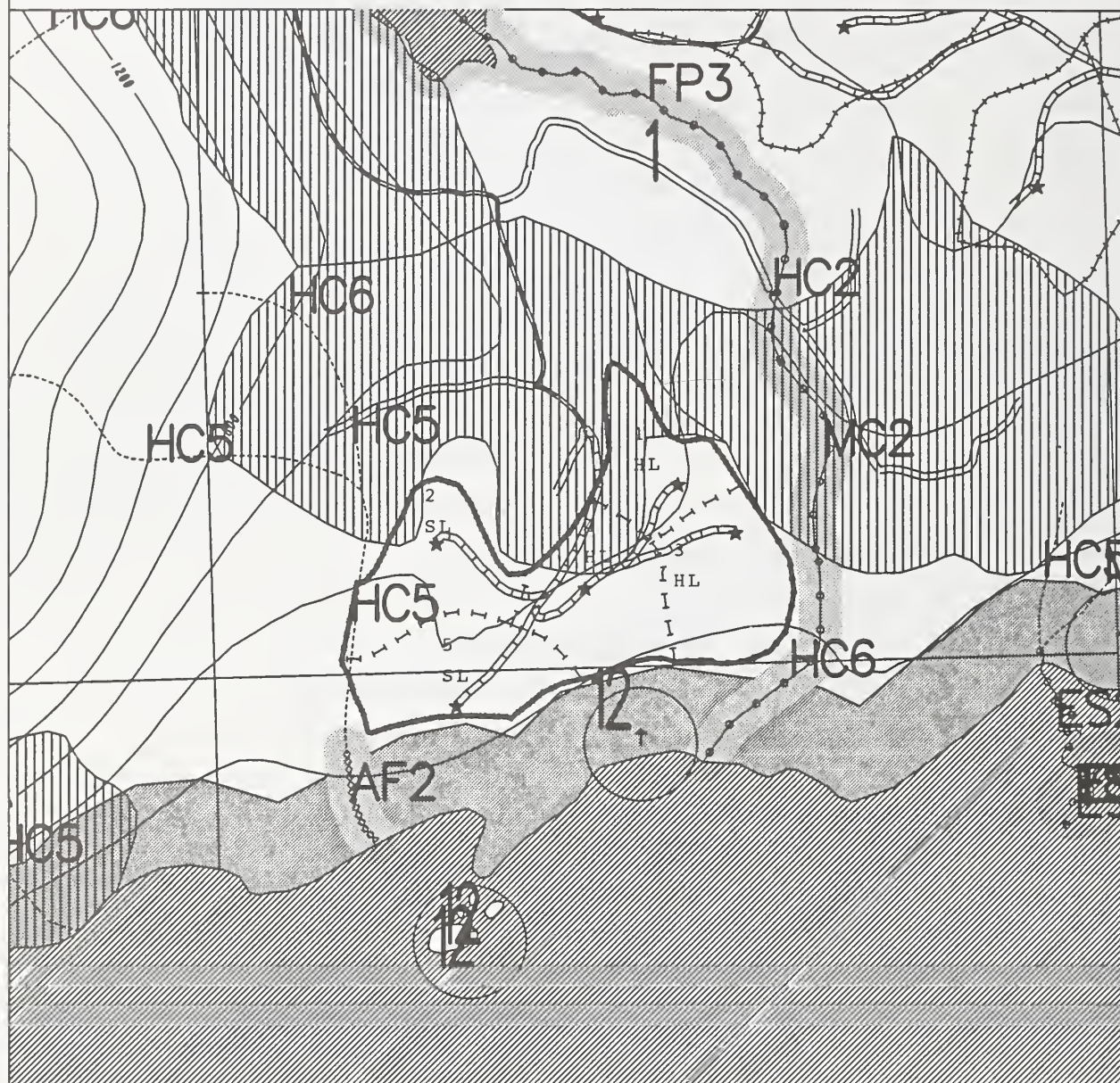
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9048

PLANNED HARVEST UNIT MAP

ACRES: 65 VOLUME: 2039 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9049</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 5 6</u>	VQO <u>PR</u>
Planned acres <u>33</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>824</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 33 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 33 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 33 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 0 Percent Seen 45 Percent Unseen 55 Aspect South

SOILS

This unit has 1 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 4 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

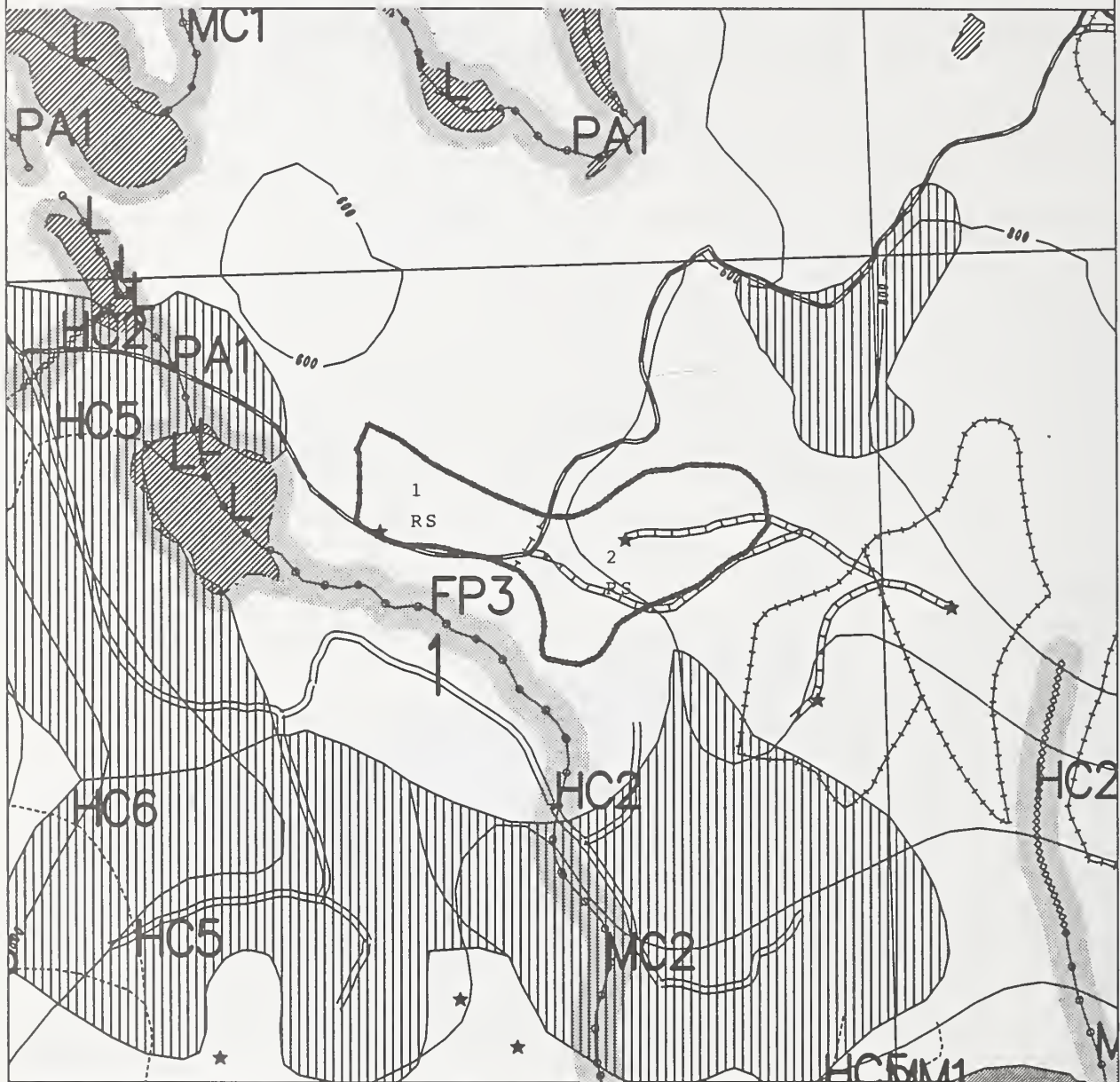
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9049

PLANNED HARVEST UNIT MAP

ACRES: 33 VOLUME: 824 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9050</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 6</u>	VQO <u>PR</u>
Planned acres <u>49</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1693</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 49 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 38 acres 800-1200 ft. 11 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 3 acres High 8 acres Very High 34 acres
Cedar 0 Hemlock 47 Mixed 2 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 41 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

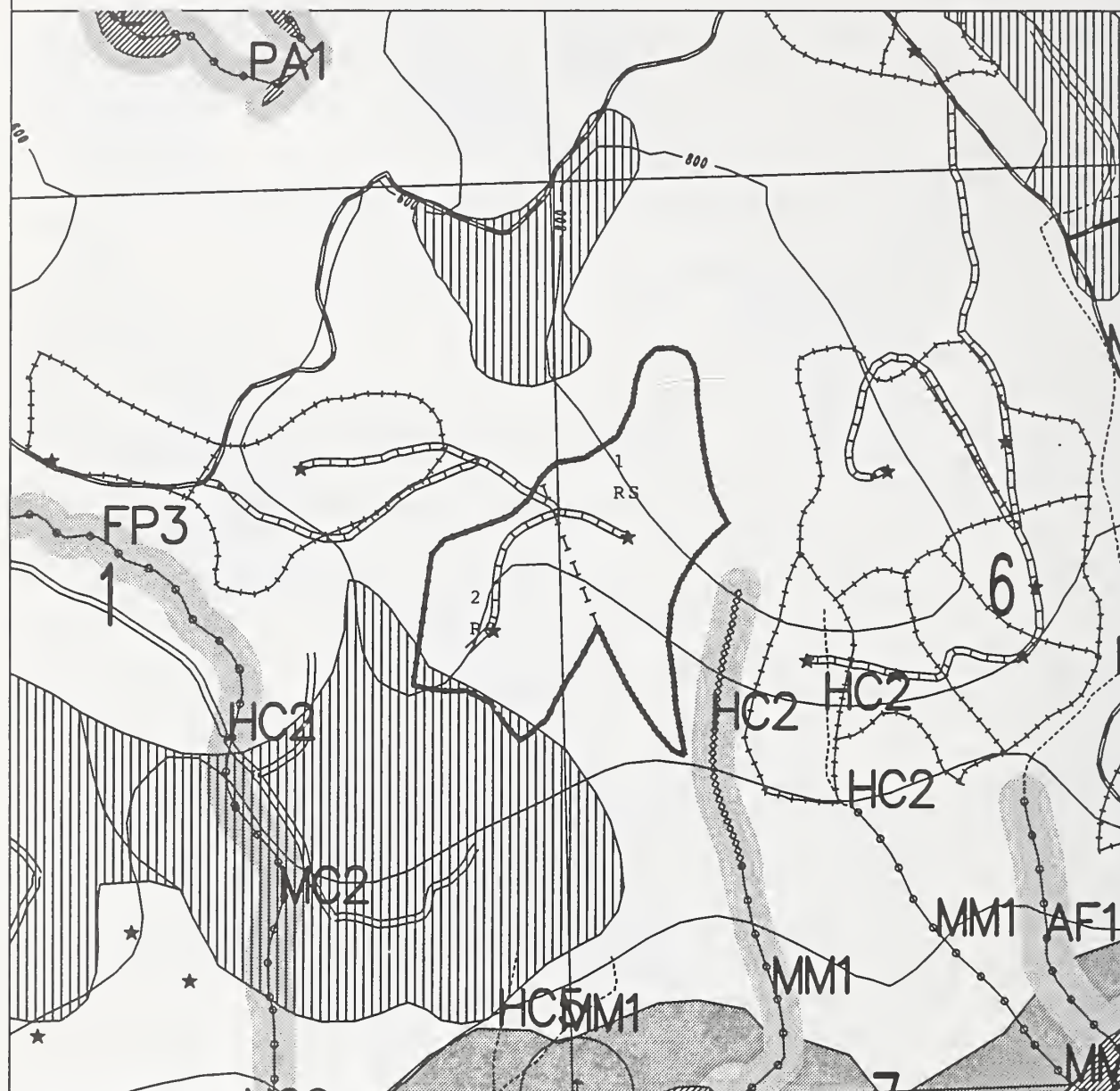
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9050

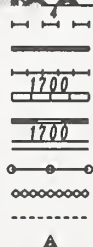
PLANNED HARVEST UNIT MAP

ACRES: 49 VOLUME: 1693 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9051</u>	No. Settings <u>5</u>	Alternatives considered <u>3 4 6</u>	VQO <u>M</u>
Planned acres <u>83</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2610</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 68 acres VC6 15 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 30 acres 800-1200 ft. 42 acres 1200-1500 ft. 11 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 27 acres High 50 acres Very High 0 acres
Cedar 0 Hemlock 83 Mixed 0 Percent Seen 68 Percent Unseen 32 Aspect South

SOILS

This unit has 83 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 31 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

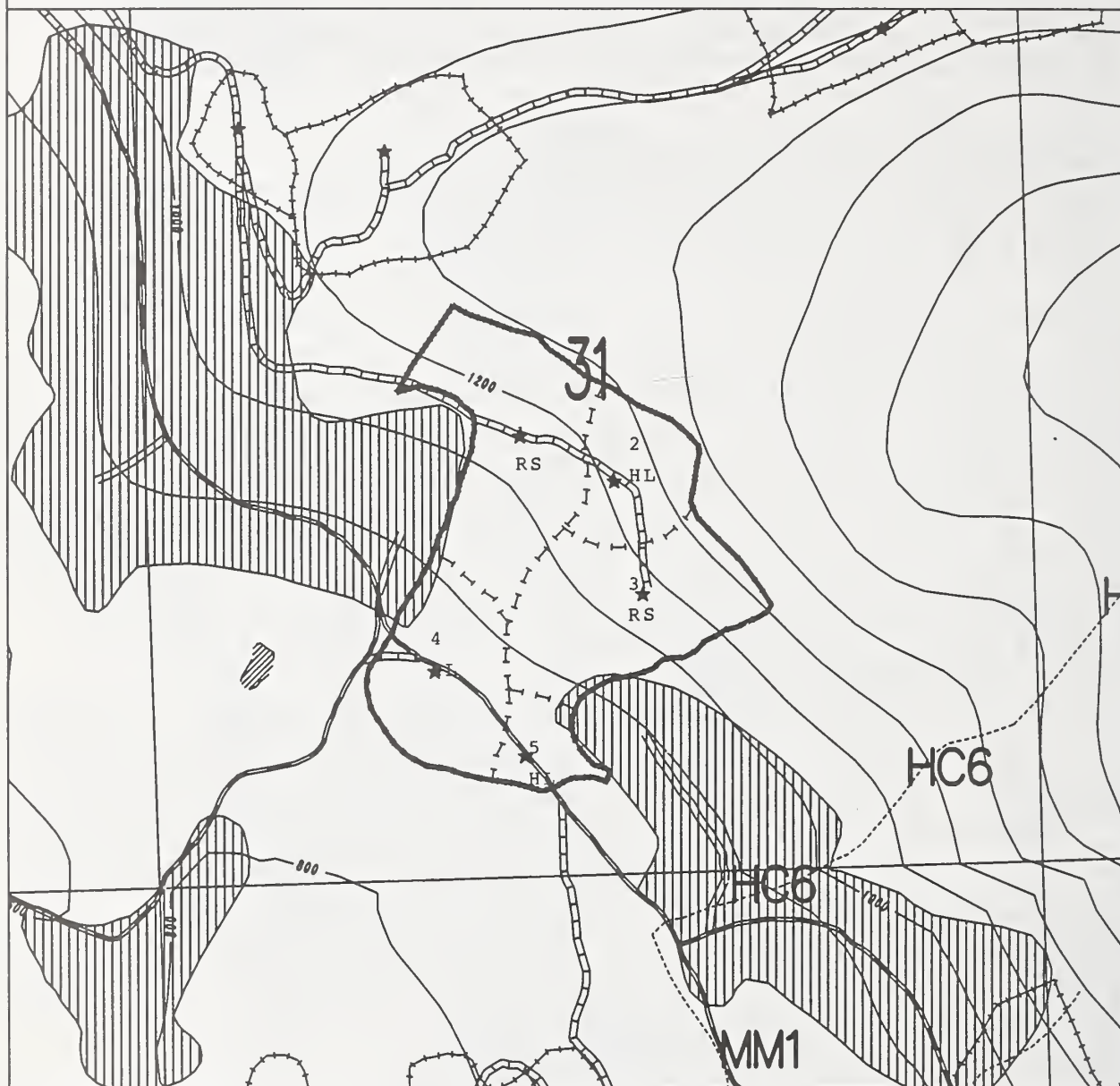
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9051

PLANNED HARVEST UNIT MAP

ACRES: 83 VOLUME: 2610 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9052</u>	No. Settings <u>6</u>	Alternatives considered <u>3 4 6</u>	VQO <u>PR</u>
Planned acres <u>88</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2745</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMM</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 79 acres VC6 9 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 64 acres 800-1200 ft. 24 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 19 acres Medium 0 acres High 0 acres Very High 69 acres
Cedar 0 Hemlock 79 Mixed 9 Percent Seen 59 Percent Unseen 41 Aspect South

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 67 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9052

NORTH KEVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 88

VOLUME: 2745

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1179-18

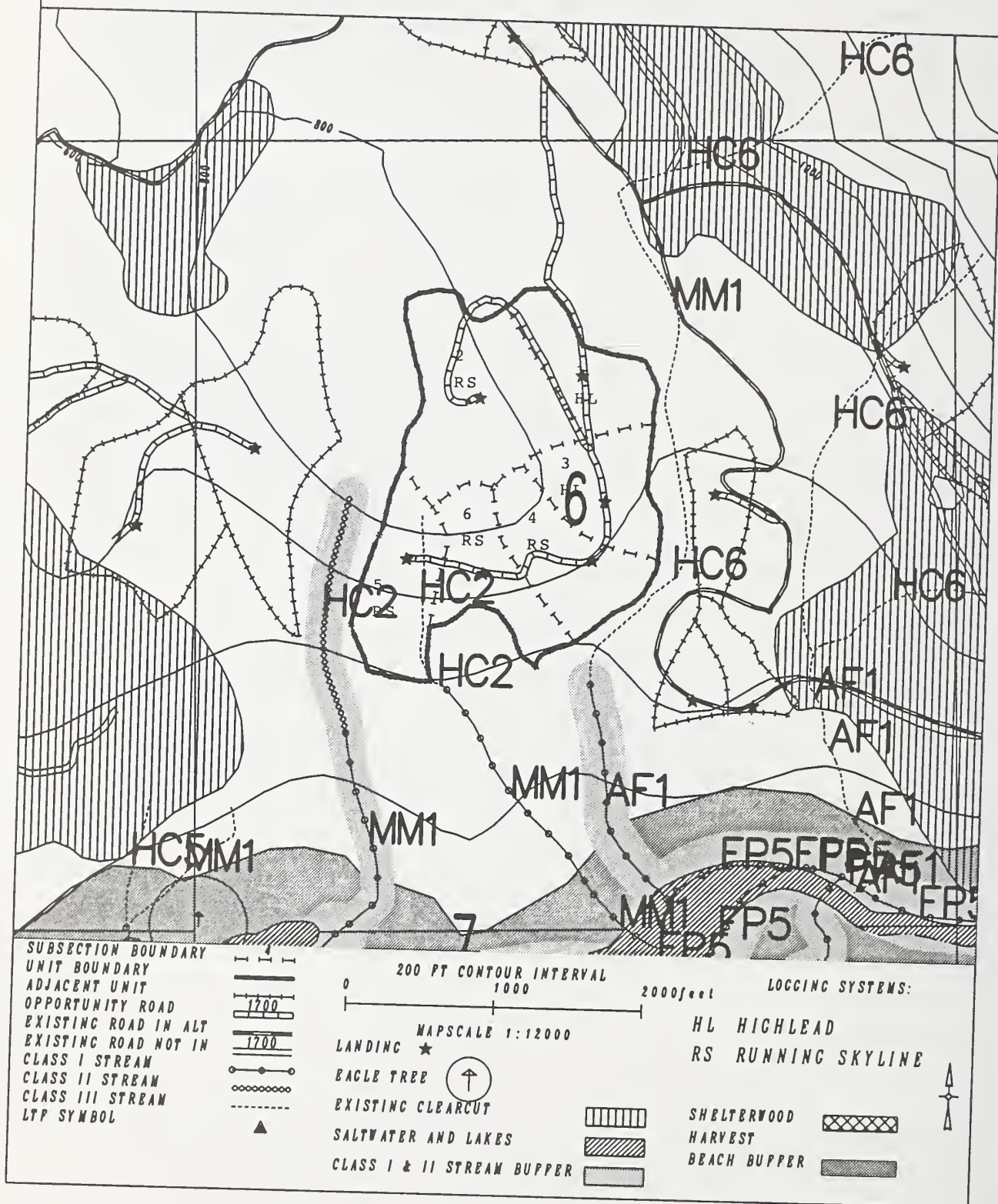
LANDNET INFO

TOWNSHIP

71S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9053</u>	No. Settings <u>3</u>	Alternatives considered <u>3 5 6</u>	VQO <u>PR</u>
Planned acres <u>18</u>	Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>	
Estimated volume (mbf) <u>614</u>	Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>	
Logging methods <u>HL</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>	
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-18</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 13 acres VC6 5 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 0 acres Very High 16 acres
Cedar 0 Hemlock 13 Mixed 6 Percent Seen 94 Percent Unseen 6 Aspect South

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

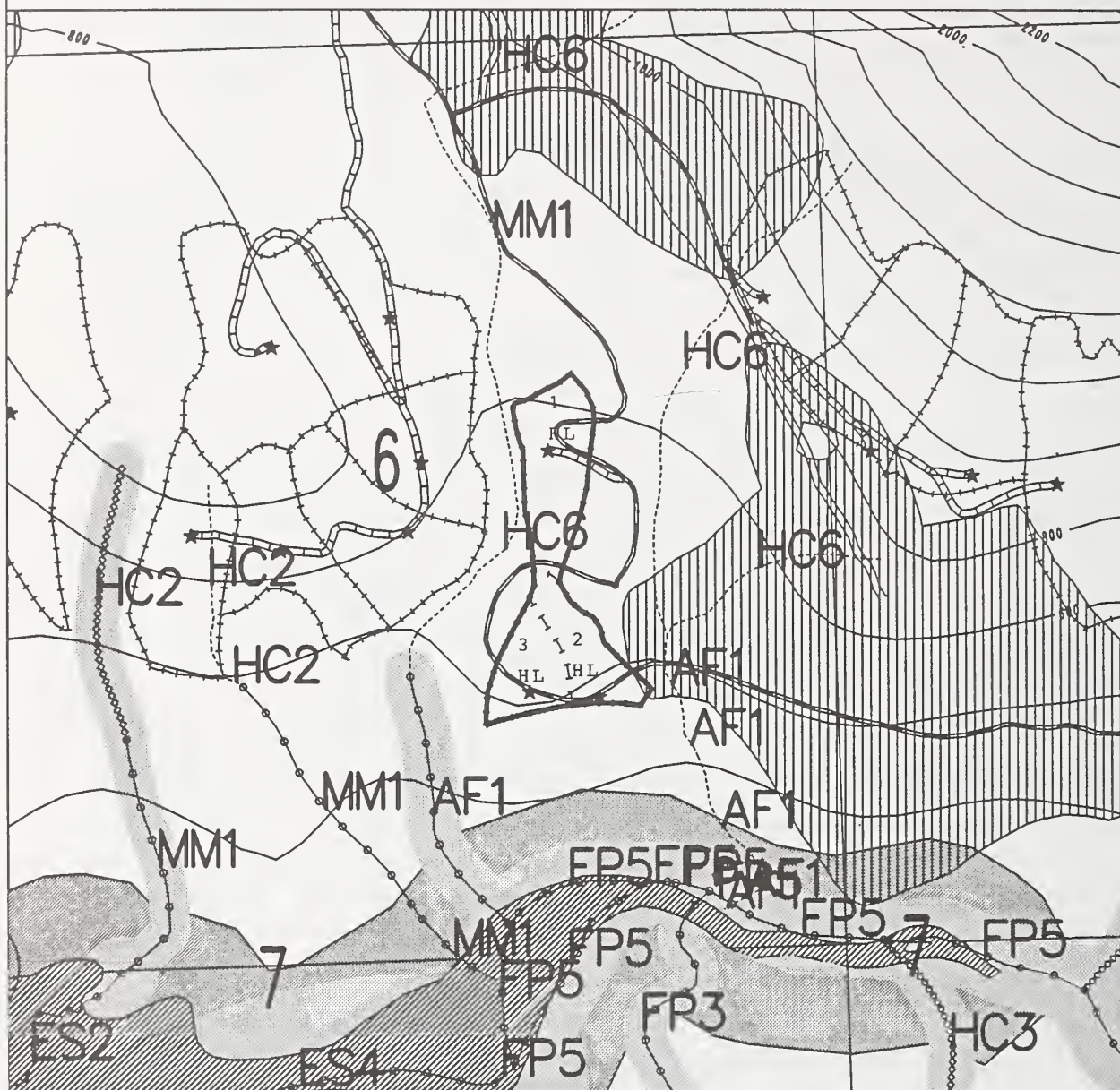
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9053

PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 614 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (↑)

EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD HARVEST
 BEACH BUFFER

July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9054</u>	No. Settings <u>4</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>72</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2210</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 72 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 10 acres 800-1200 ft. 52 acres 1200-1500 ft. 10 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 50 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 1 Percent Seen 97 Percent Unseen 3 Aspect West

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 29 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

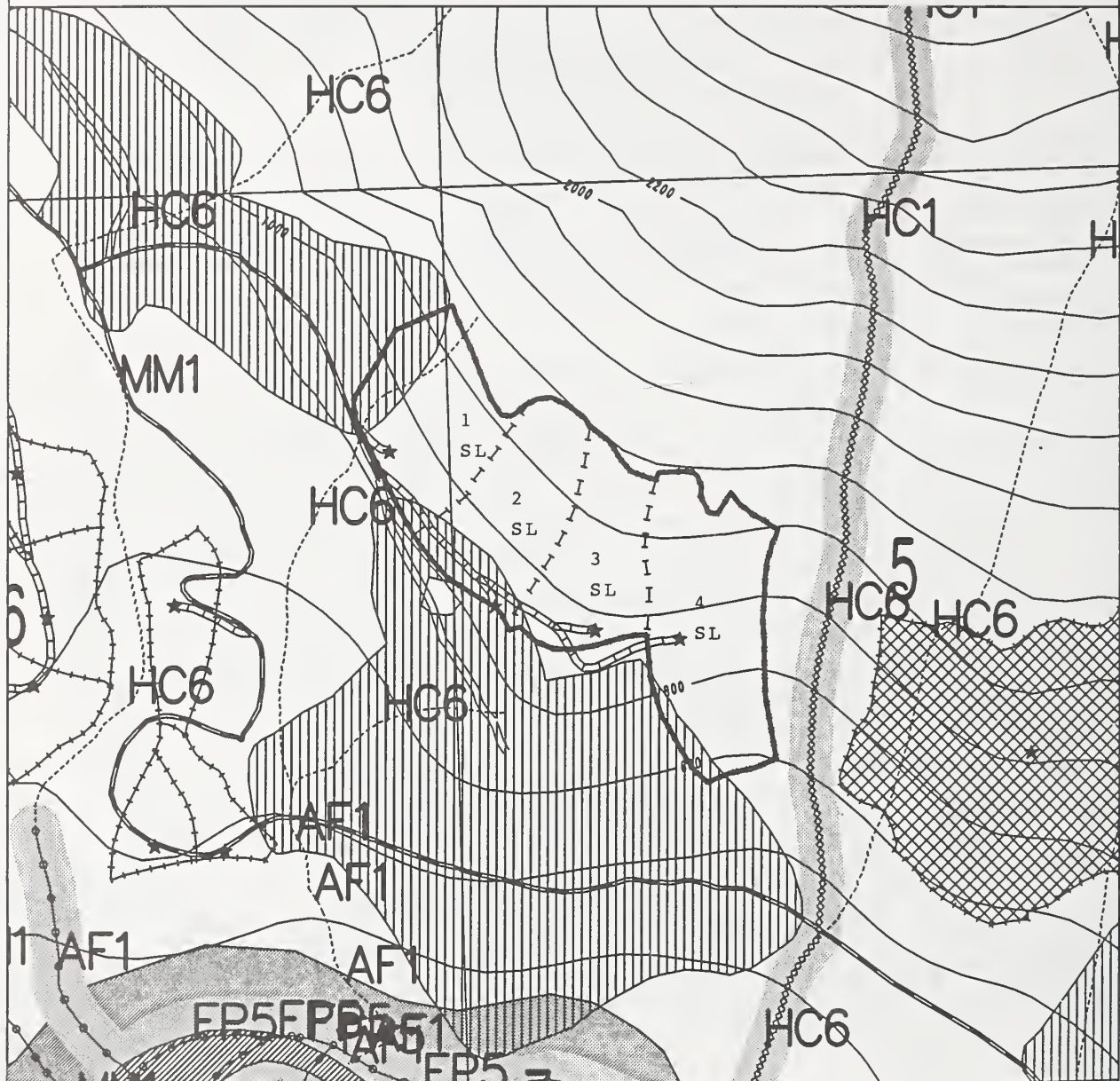
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9054

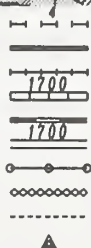
PLANNED HARVEST UNIT MAP

ACRES: 72 VOLUME: 2210 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-9 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE



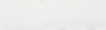
SHELTERWOOD



HARVEST



BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9055</u>	No. Settings <u>7</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>80</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2541</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCS</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 77 acres VC6 3 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 76 acres 800-1200 ft. 4 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 17 acres Medium 46 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 73 Mixed 4 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 26 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9055

NORTH KEYVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 80VOLUME: 2541

MBF

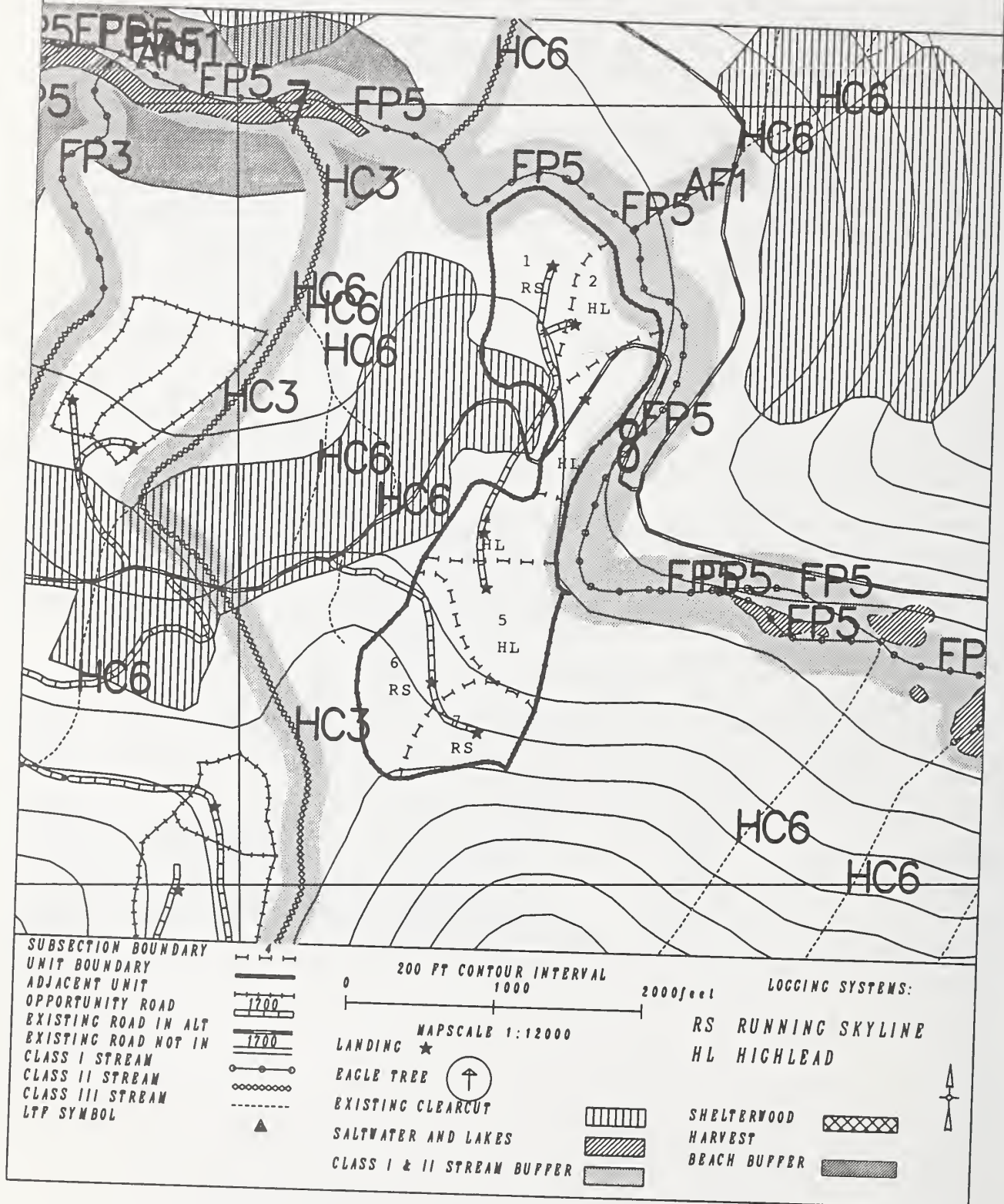
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1279-11

LANDNET INFO

TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9056</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u>	VQO <u>PR</u>
Planned acres <u>30</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>941</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 30 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 30 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 30 acres Very High 0 acres
Cedar 0 Hemlock 18 Mixed 11 Percent Seen 97 Percent Unseen 3 Aspect North

SOILS

This unit has 30 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 30 VOLUME: 941 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

[illegible]

SHELTERWOOD 

HARVEST 

BEACH BUFFER 

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9057</u>	No. Settings <u>5</u>	Alternatives considered <u>3</u> <u>5</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>108</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3189</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-14</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 31 acres VC5 77 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 43 acres 800-1200 ft. 15 acres 1200-1500 ft. 11 acres over 1500 ft. 39 acres
Mass movement index: Low 2 acres Medium 11 acres High 95 acres Very High 0 acres
Cedar 0 Hemlock 103 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 108 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9057

PLANNED HARVEST UNIT MAP

ACRES: 108VOLUME: 3189

MBP

QUAD(s): KTNC5QUARTER QUAD(s): NWN

PHOTO NUM.:

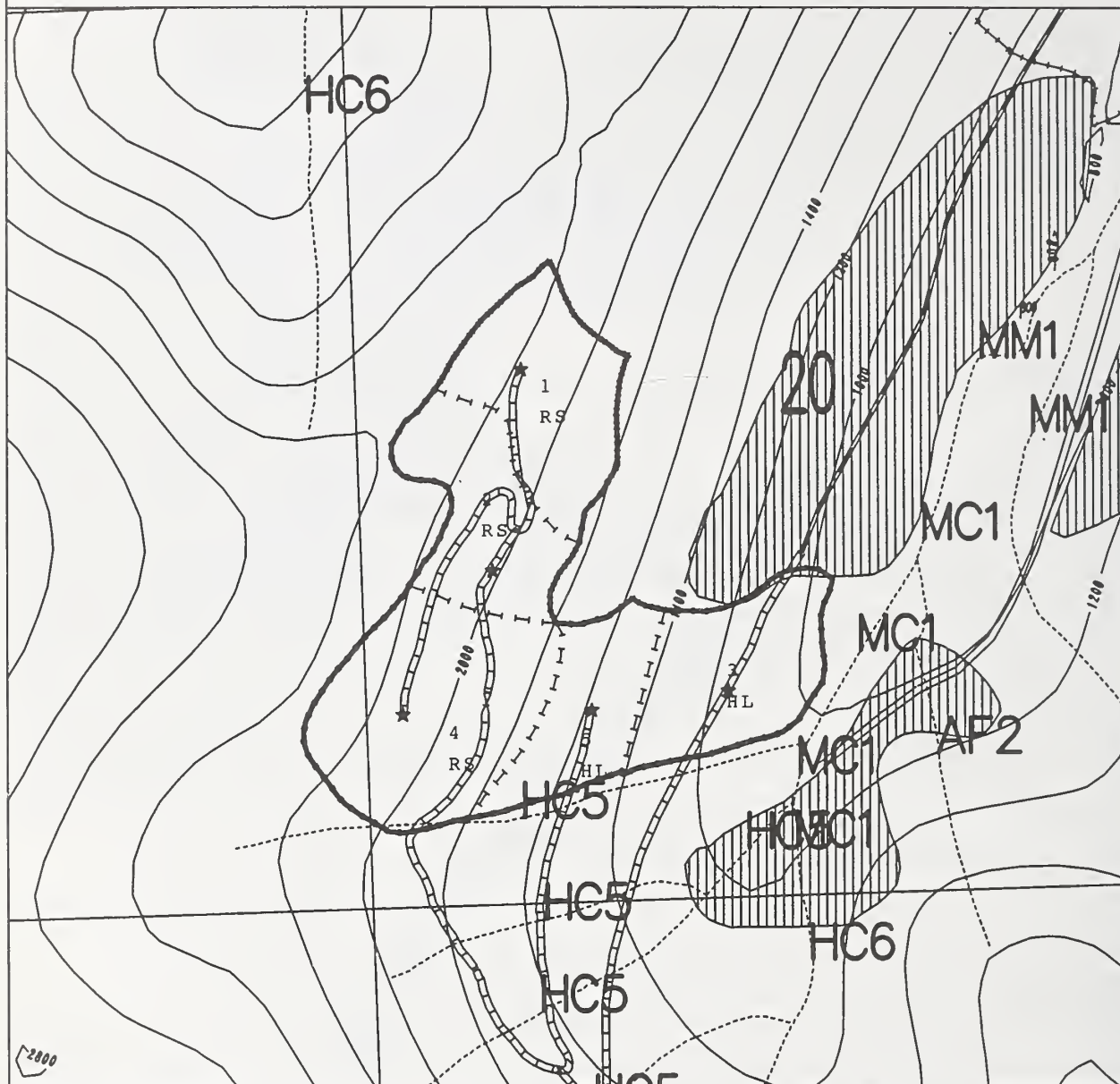
1279-14

LANDNET INFO

TOWNSHIP

71SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9058</u>	No. Settings <u>4</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>42</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1266</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 0 acres 1200-1500 ft. 15 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 15 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 41 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

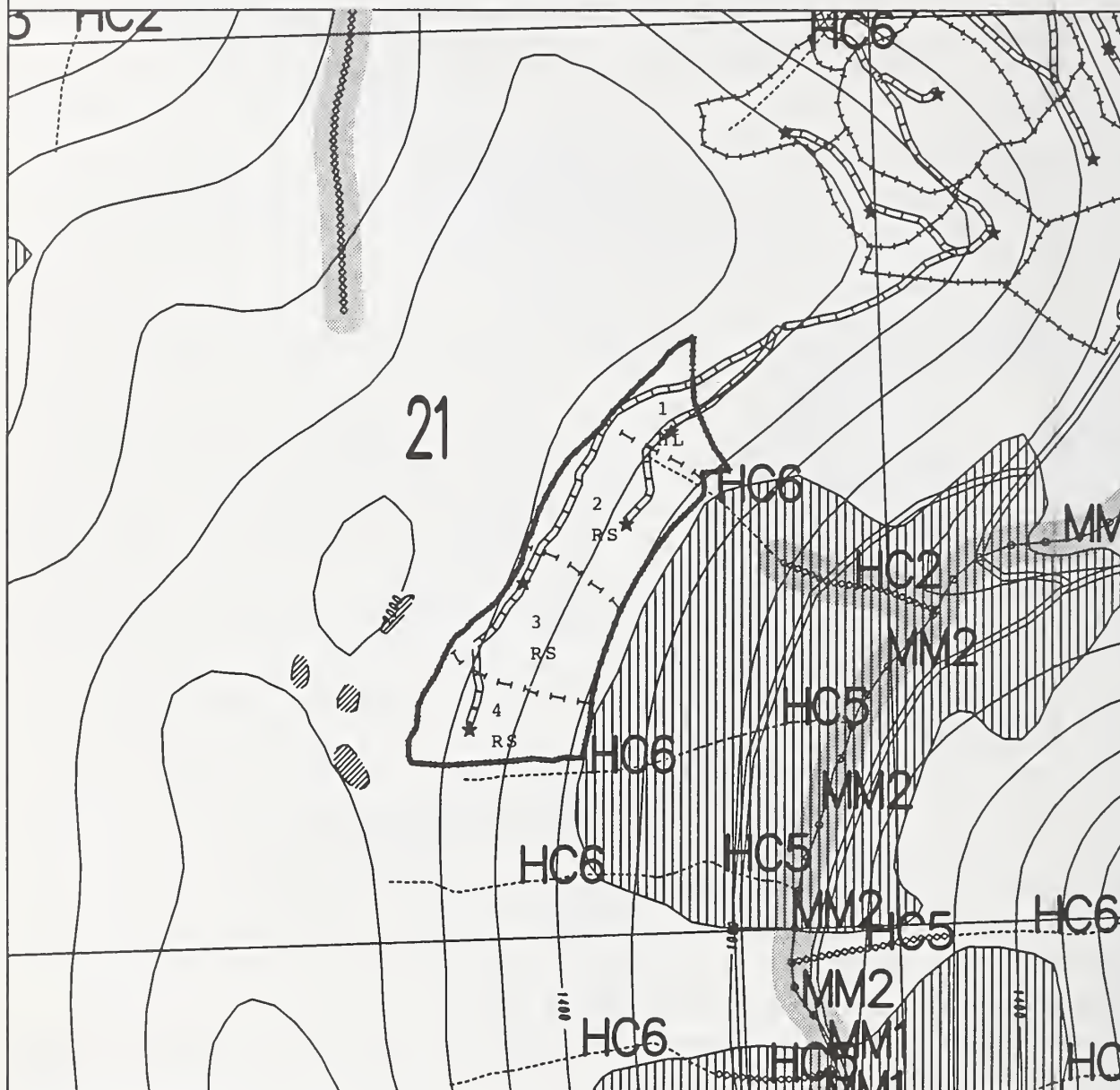
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9058

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1266 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1273-26 LANDNET INFO TOWNSHIP 71S RANGR 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9059</u>	No. Settings <u>11</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>108</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3202</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 18 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 44 acres 800-1200 ft. 39 acres 1200-1500 ft. 25 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 45 acres High 57 acres Very High 0 acres
Cedar 0 Hemlock 107 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 102 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit contains 44 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

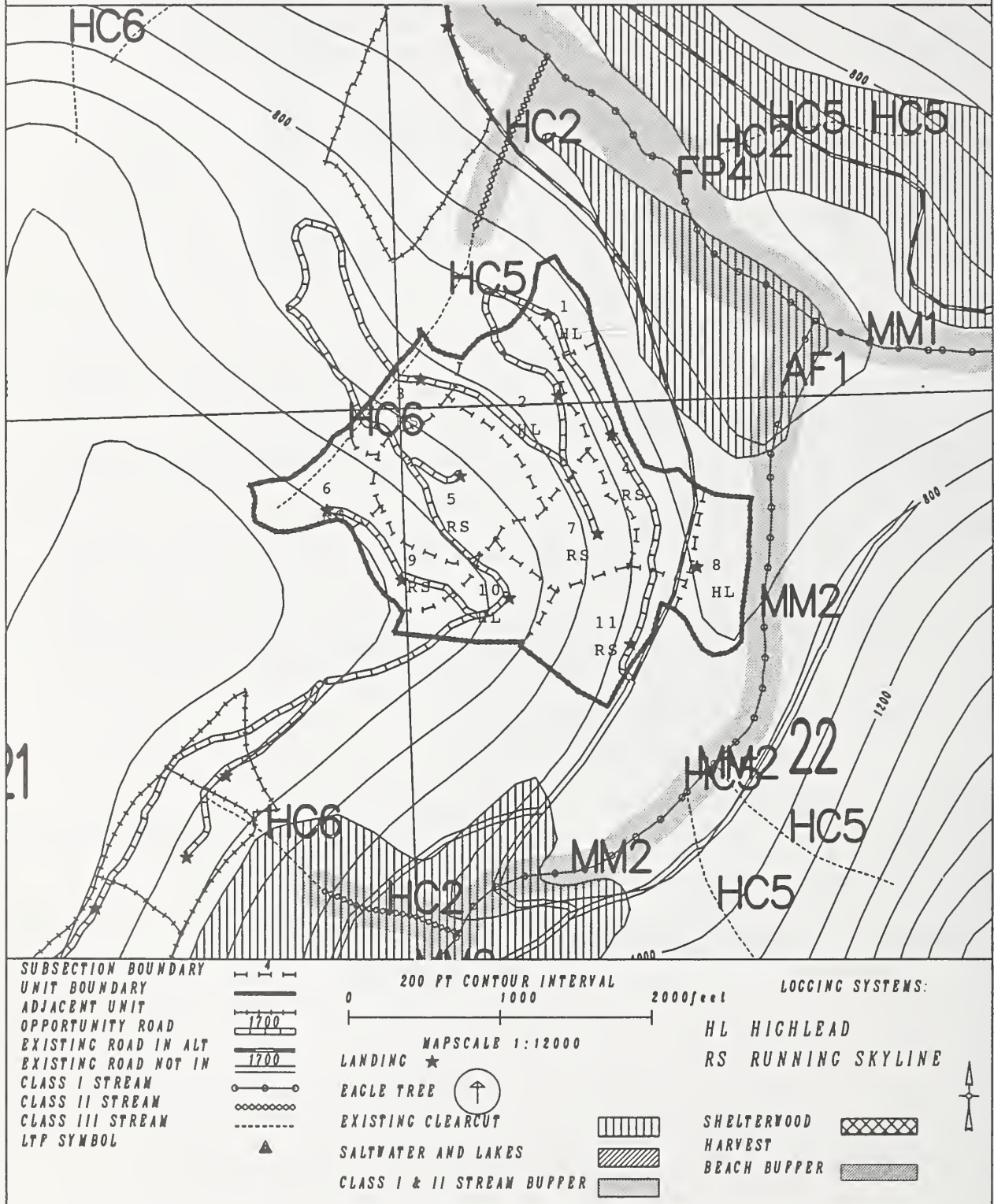
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9059

PLANNED HARVEST UNIT MAP

ACRES: 108 VOLUME: 3202 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 9060	No. Settings 1	Alternatives considered 3 6	VQO MM
Planned acres 27		Quad KTNC5NEN	Windthrow risk H
Estimated volume (mbf) 933		Mgmt Area K32 VCU 7390	Plant Series SSR
Logging methods SL		WAA 510	Forest type Hemlock
Silvicultural system Clearcut		1981 Photo 1279-26	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 3 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 3 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 27 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 27 VOLUME: 933 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

The map displays a topographic representation of the study area. Contour lines are drawn at intervals, with labels for 100, 200, 400, 600, 800, and 1000 feet. Shaded regions, some with vertical hatching, delineate specific geological or hydrological features. Numerous points are marked with dots and labeled: FP5, FP4, FP3, AF1, MM2, HC1, HC2, HC5, and HC6. A scale bar labeled '1 SL' is positioned in the center of the map.

July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9061</u>	No. Settings <u>4</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>31</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>973</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-66</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 25 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 29 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

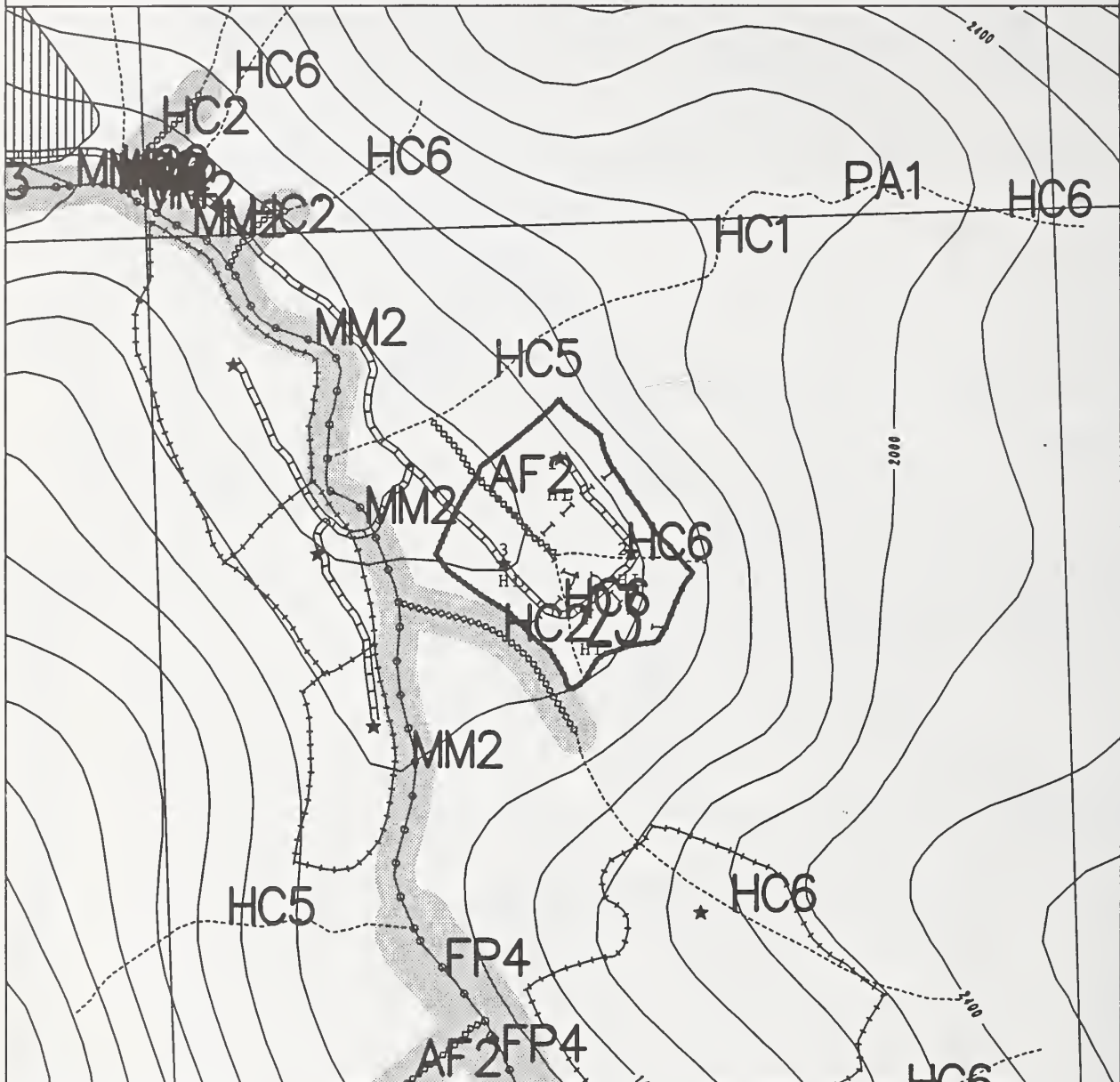
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9061

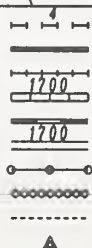
PLANNED HARVEST UNIT MAP

ACRES: 31 VOLUME: 973 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-66 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9062</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>93</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2760</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 66 acres VC6 1 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 64 acres 800-1200 ft. 29 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 15 acres Medium 62 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 92 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 30 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 28 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

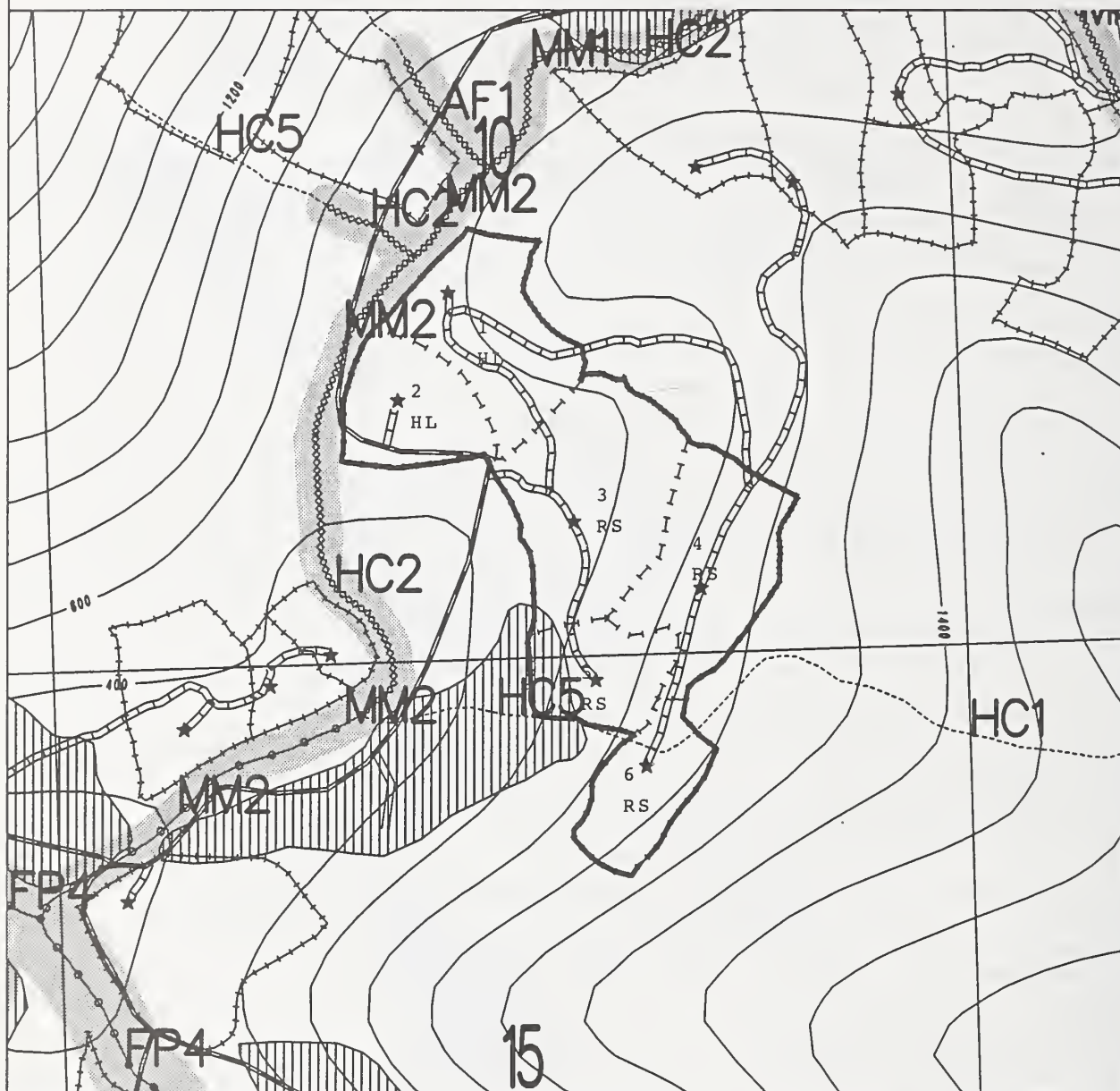
CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 93 VOLUME: 2760 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9063</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>16</u>		Quad <u>KTNC5NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>554</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-28</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 9 acres VC6 6 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 2 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 6 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 6 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

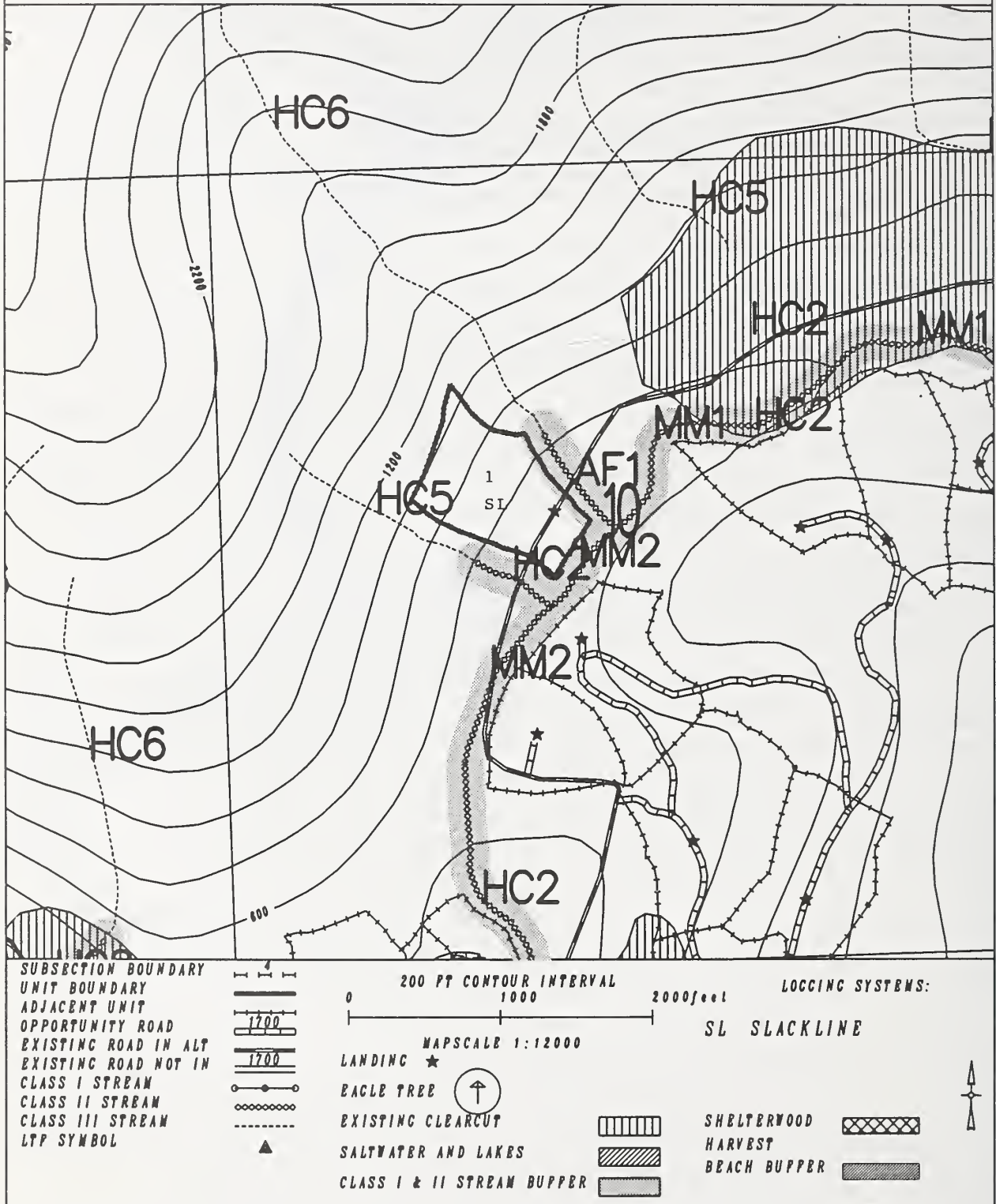
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9063

PLANNED HARVEST UNIT MAP

ACRES: 16 VOLUME: 554 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-28 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9064</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>83</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2899</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 51 acres VC6 31 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 42 acres 1200-1500 ft. 4 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 66 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 61 Mixed 21 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 4 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9064

PLANNED HARVEST UNIT MAP

ACRES: 83

VOLUME: 2899 MBF

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1279-63

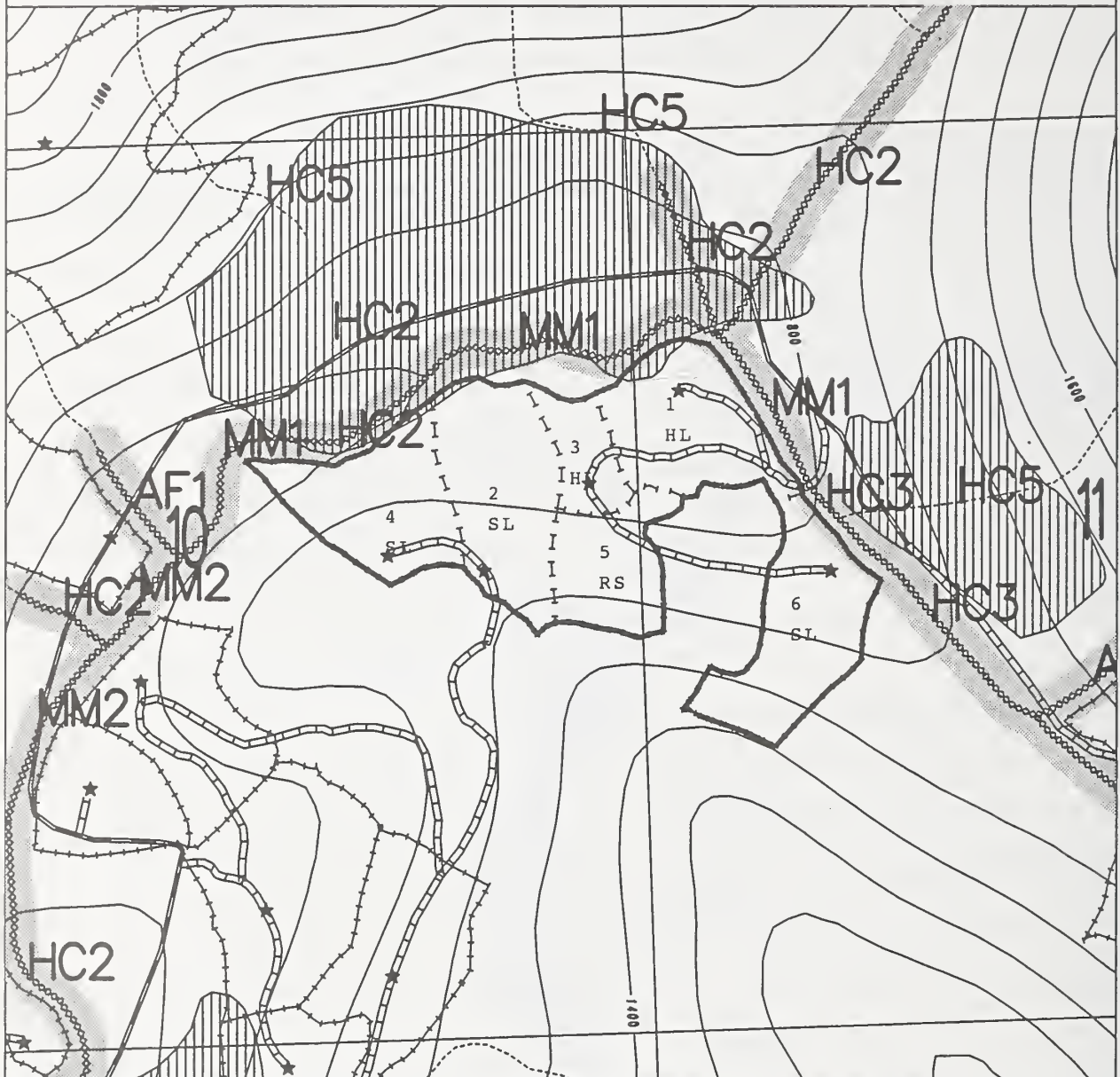
LANDNET INFO

TOWNSHIP

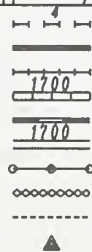
71S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HL HIGHLEAD

SL SLACKLINE

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUPPER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9065</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>17</u>		Quad <u>KINC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>520</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 2 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 3 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 5 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 2 Mixed 14 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 17 VOLUME: 520 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E

A topographic map of the study area, showing contour lines and elevation. The map includes several labeled regions: HC1, HC2, HC3, HC5, HC6, AF2, RS1, and RS2. The map also shows a road network and a shaded area. The elevation ranges from 1600 to 2600 meters. The map is oriented with North at the top.

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUPPER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9066</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>24</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>791</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 20 acres VC6 4 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 14 acres 1200-1500 ft. 9 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 24 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 24 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 23 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

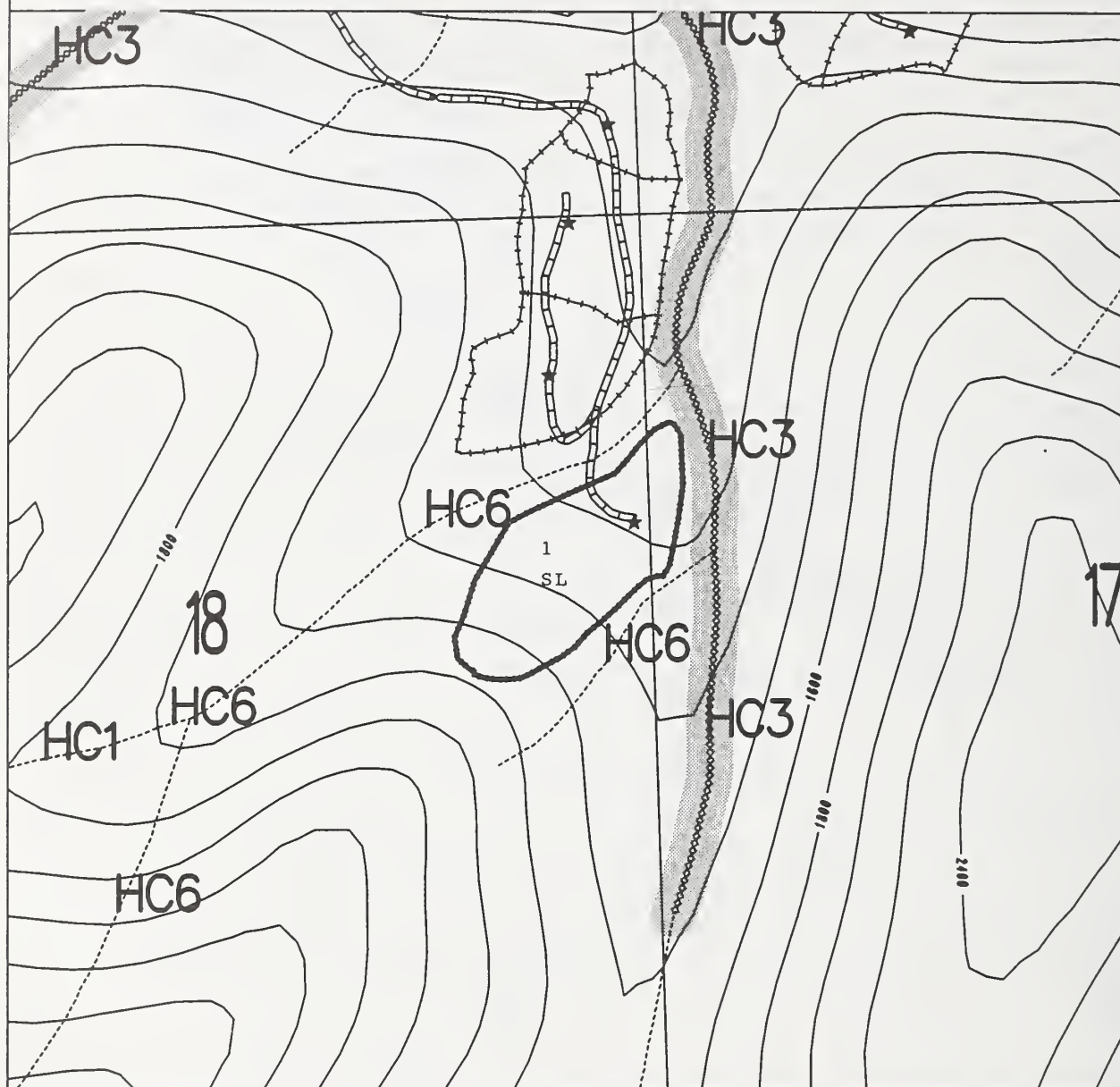
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9066

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 791 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9067</u>	No. Settings <u>5</u>	Alternatives considered <u>3 4 6</u>	VQO <u>M</u>
Planned acres <u>71</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2188</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 65 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 46 acres 800-1200 ft. 0 acres 1200-1500 ft. 25 acres over 1500 ft. 0 acres
Mass movement index: Low 9 acres Medium 62 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

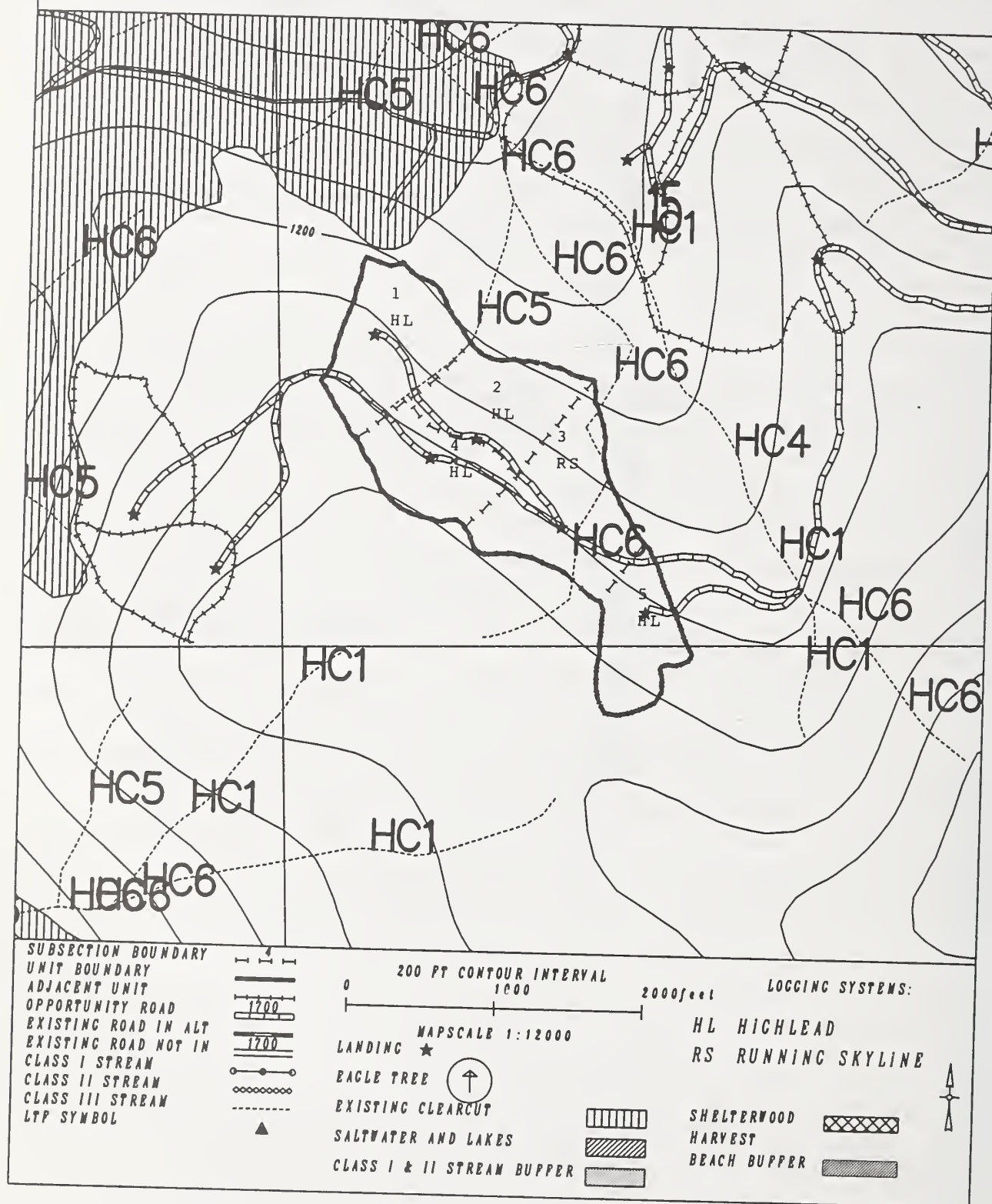
GEOLOGY

There are no geological mitigation measures anticipated for this unit.

PLANNED HARVEST UNIT MAP

ACRES: 71 VOLUME: 2188 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-11 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9068</u>	No. Settings <u>1</u>	Alternatives considered <u>3 5 6</u>	VQO <u>PR</u>
Planned acres <u>12</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>415</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 18 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9068

PLANNED HARVEST UNIT MAP

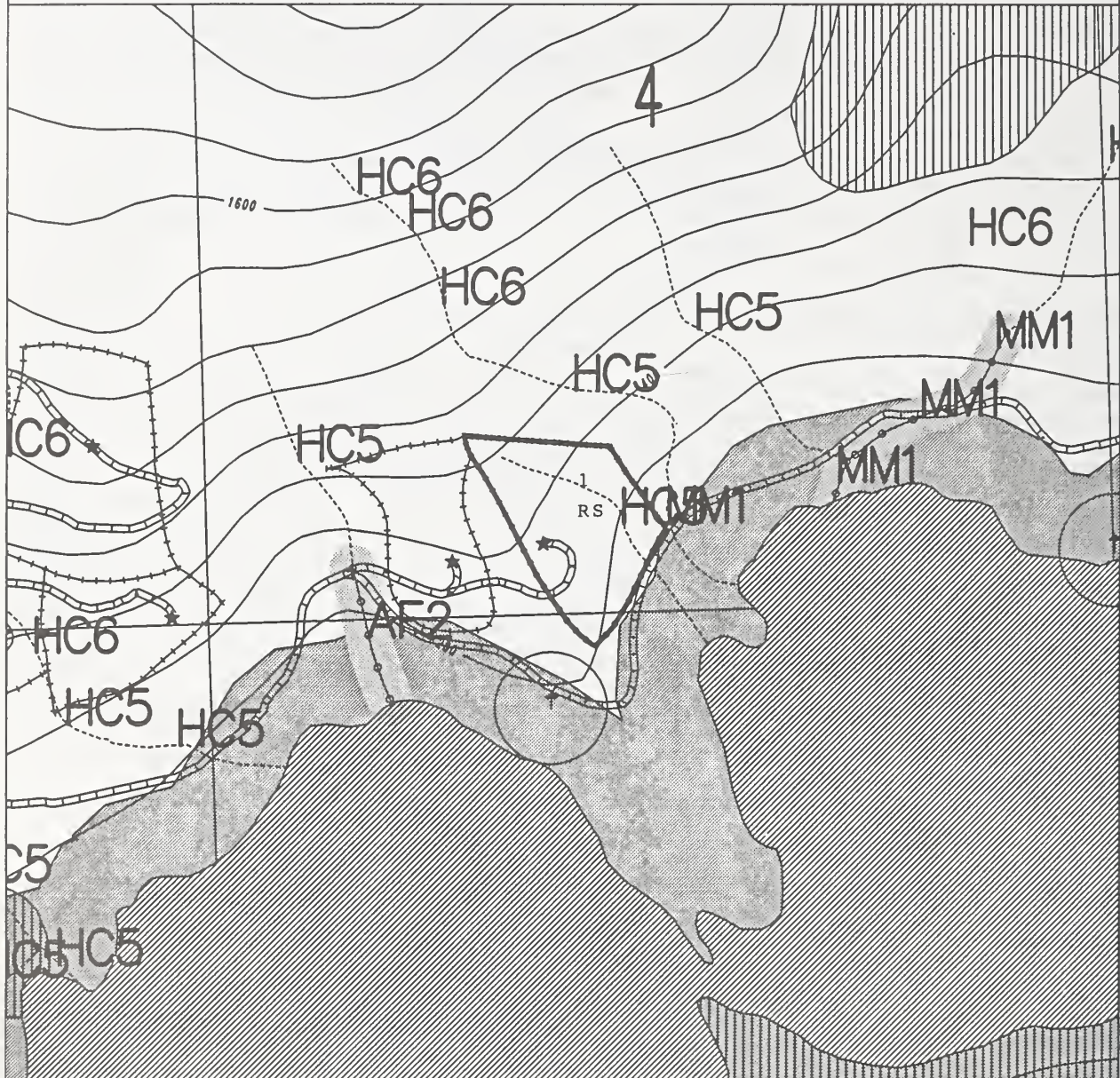
ACRES: 12VOLUME: 415 MBPQUAD(s): KTNC5QUARTER QUAD(s): NWHPHOTO NUM.: 1179-12

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9069</u>	No. Settings <u>2</u>	Alternatives considered <u>3 5</u>	VQO <u>M</u>
Planned acres <u>33</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1436</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 3 acres VC6 30 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 30 acres 800-1200 ft. 3 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 12 acres Medium 3 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 30 Mixed 3 Percent Seen 85 Percent Unseen 15 Aspect East

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9069

PLANNED HARVEST UNIT MAP

ACRES: 33VOLUME: 1436

MBP

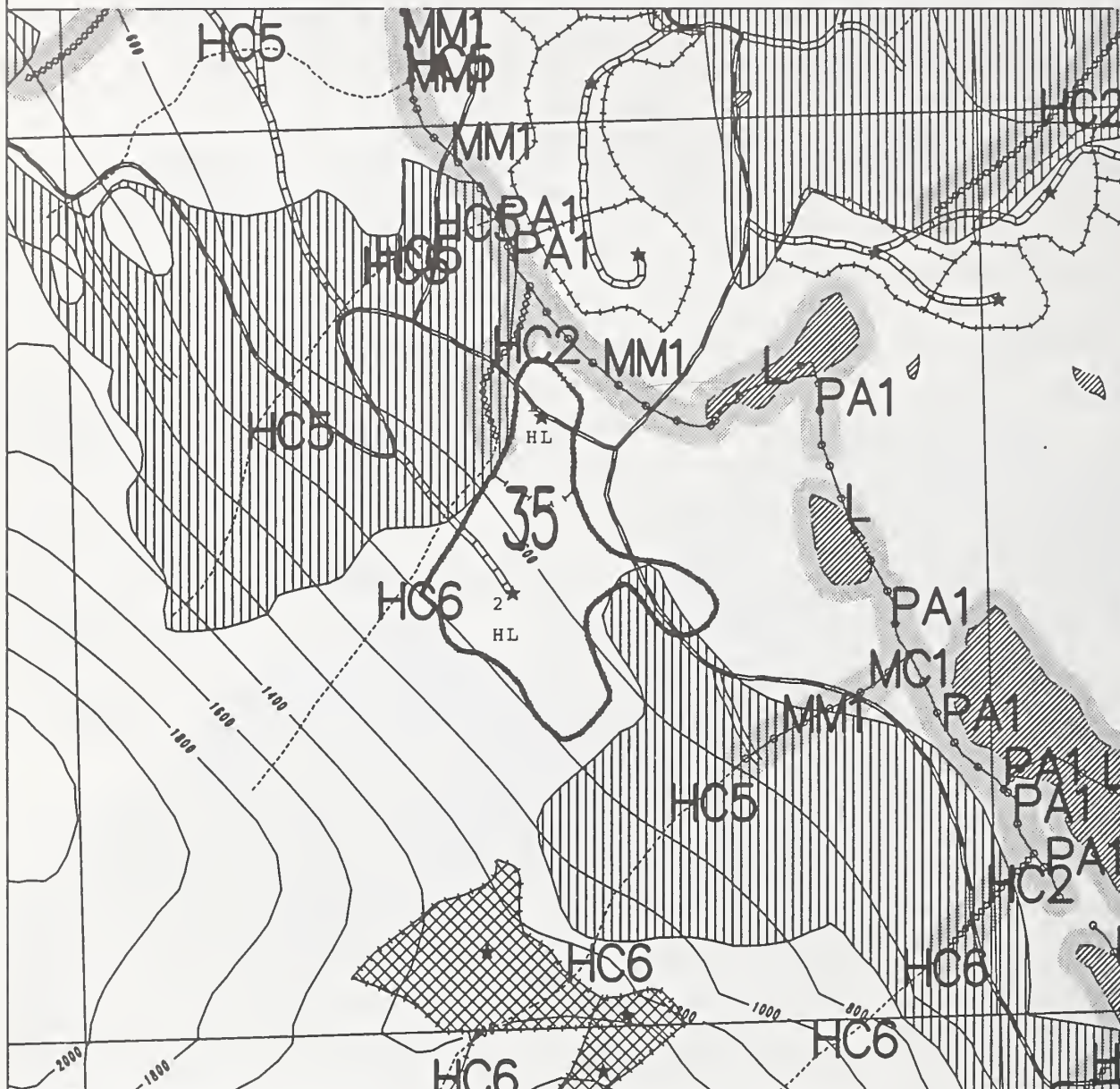
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM. : 1179-16

LANDNET INFO

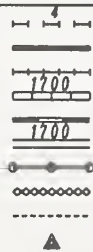
TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
HARVEST
BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9071</u>	No. Settings <u>1</u>	Alternatives considered <u>6</u>	VQO <u>M</u>
Planned acres <u>72</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2175</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1279-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 13 acres VC5 59 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 40 acres 1200-1500 ft. 8 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 14 acres High 43 acres Very High 15 acres
Cedar 0 Hemlock 72 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 93 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 32 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 15 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

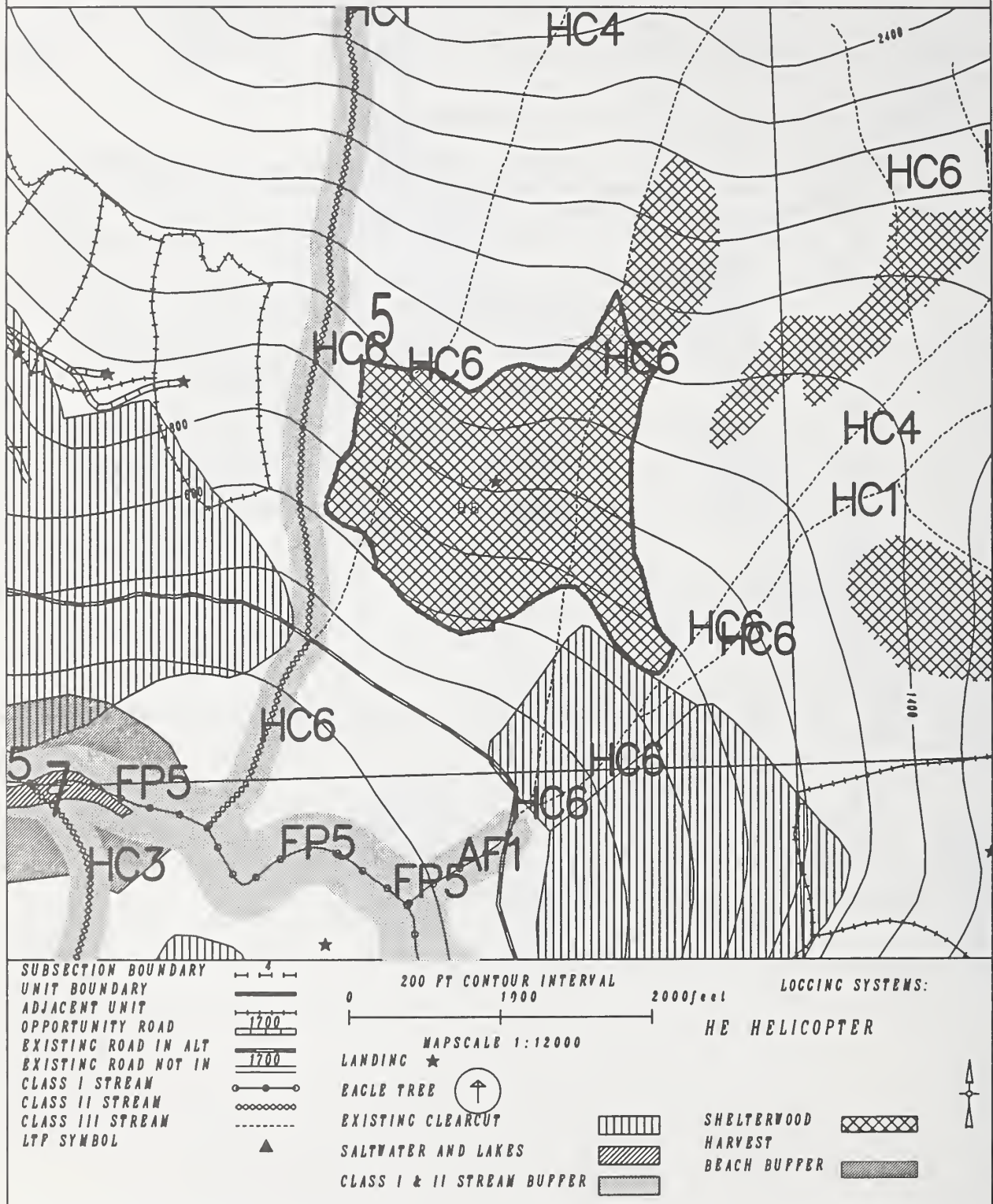
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9071

PLANNED HARVEST UNIT MAP

ACRES: 72 VOLUME: 2175 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-9 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9072</u>	No. Settings <u>2</u>	Alternatives considered <u>6</u>	VQO <u>M</u>
Planned acres <u>73</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2239</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-29</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 65 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 14 acres 1200-1500 ft. 25 acres over 1500 ft. 34 acres
Mass movement index: Low 0 acres Medium 8 acres High 64 acres Very High 1 acres
Cedar 0 Hemlock 65 Mixed 8 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 73 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 73 VOLUME: 2239 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
PHOTO NUM.: 1279-29 LANDNET INFO TOWNSHIP 71S RANGE 91E

The topographic map displays the study area with contour lines indicating elevation. Key locations and features are labeled as follows:

- HC1**: Located in the upper left quadrant.
- HC6**: Multiple locations, including a large area in the center-left and a smaller area in the upper right.
- HC9**: Located in the lower right quadrant.
- AF1**: Located near the center-left, adjacent to HC6.
- AF2**: Located in the lower right quadrant, near HC9.
- FP5**: Multiple locations along the bottom edge of the map.
- HE**: Located near the center, adjacent to HC6.

The map includes a grid and a scale bar at the bottom right, indicating distances in kilometers (0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10).

SALTWATER AND LAKES
CLASS I & II STREAM BUPPER

SHELTERWOOD
HARVEST
BEACH BUPPER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9073</u>	No. Settings <u>1</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>50</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1542</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 46 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 11 acres 1200-1500 ft. 10 acres over 1500 ft. 29 acres
Mass movement index: Low 0 acres Medium 0 acres High 50 acres Very High 0 acres
Cedar 0 Hemlock 50 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 49 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

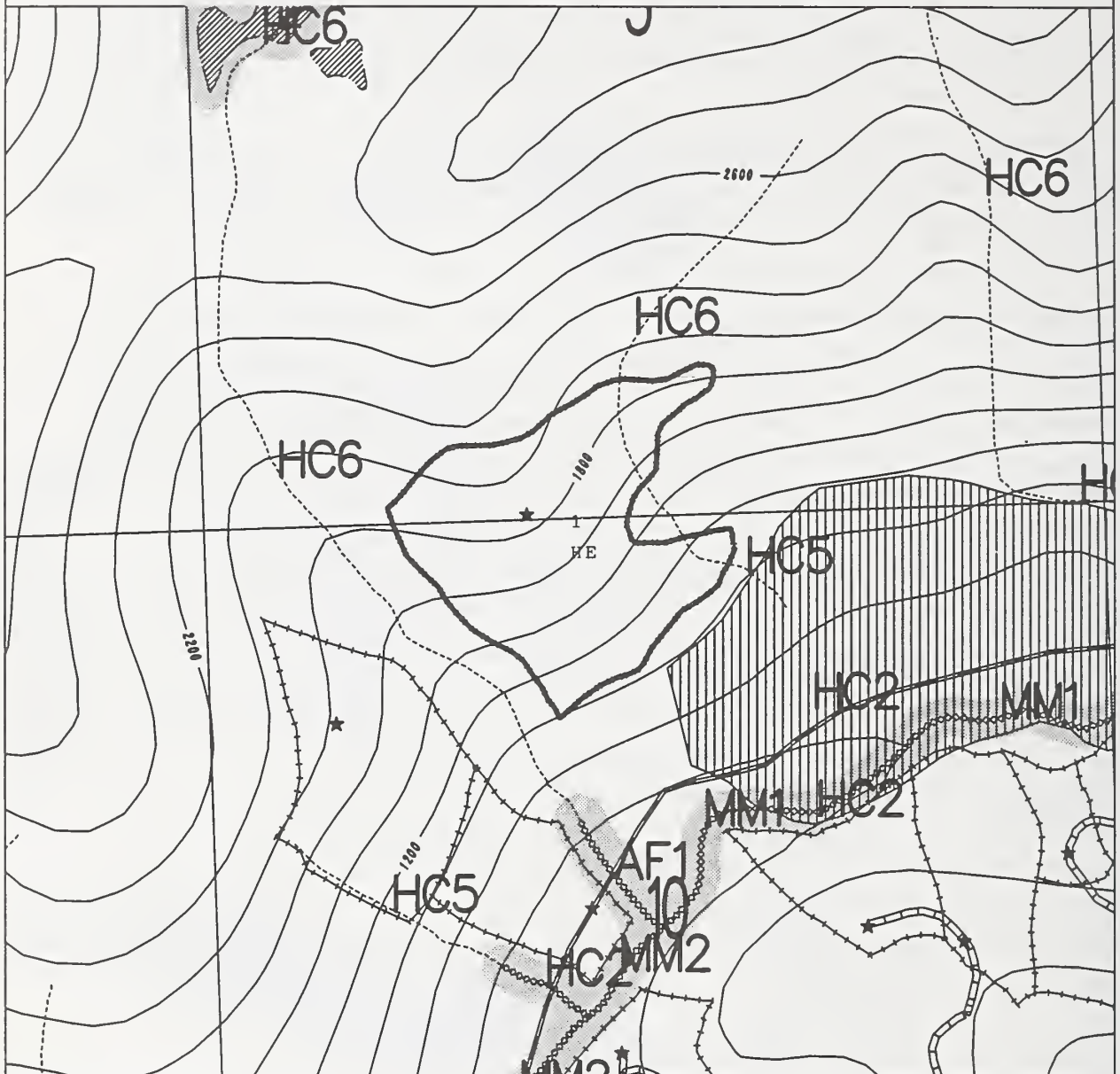
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9073

PLANNED HARVEST UNIT MAP

ACRES: 50 VOLUME: 1542 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-61 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



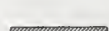
SHELTERWOOD



HARVEST



BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9074</u>	No. Settings <u>1</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>55</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1654</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 44 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 35 acres 800-1200 ft. 1 acres 1200-1500 ft. 13 acres over 1500 ft. 6 acres
Mass movement index: Low 35 acres Medium 17 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 55 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

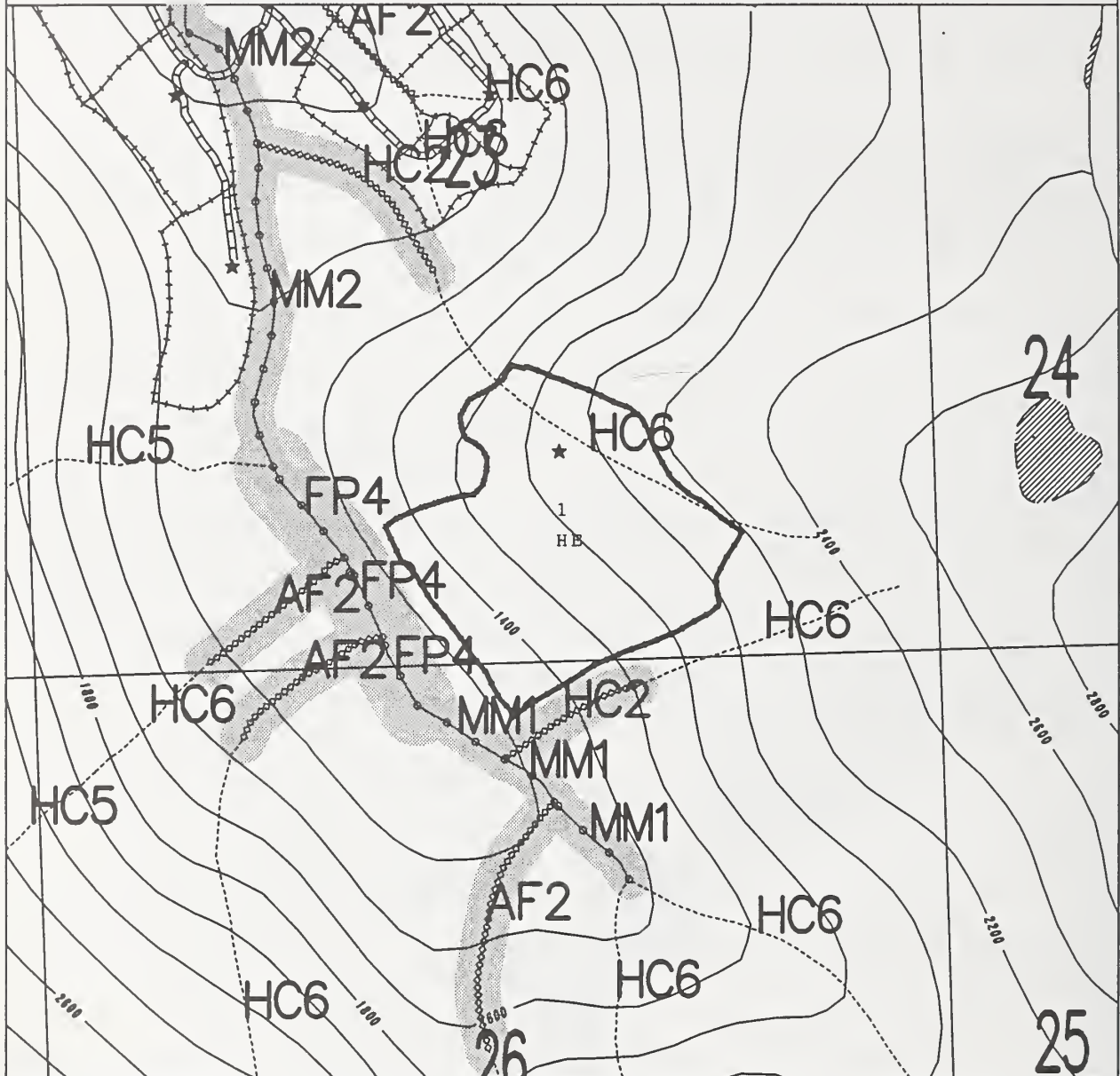
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9074

PLANNED HARVEST UNIT MAP

ACRES: 55 VOLUME: 1654 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-75 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9075</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>56</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1757</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 56 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 56 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 30 acres High 26 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 31 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 56 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

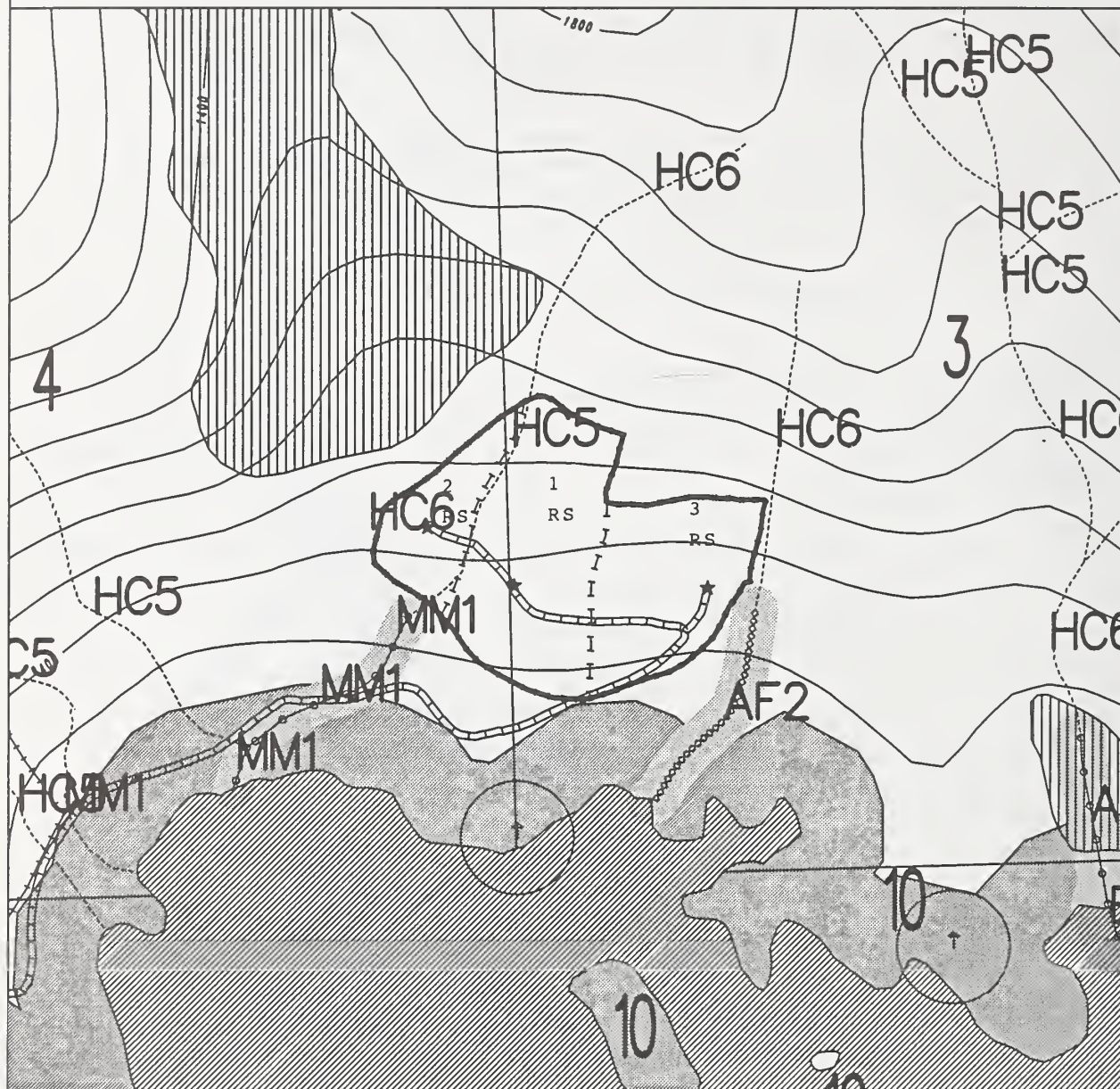
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9075

PLANNED HARVEST UNIT MAP

ACRES: 56 VOLUME: 1757 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9076</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>35</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1201</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 12 acres VC6 23 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 19 acres over 1500 ft. 16 acres
Mass movement index: Low 0 acres Medium 10 acres High 17 acres Very High 8 acres
Cedar 0 Hemlock 11 Mixed 23 Percent Seen 47 Percent Unseen 53 Aspect East

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 33 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

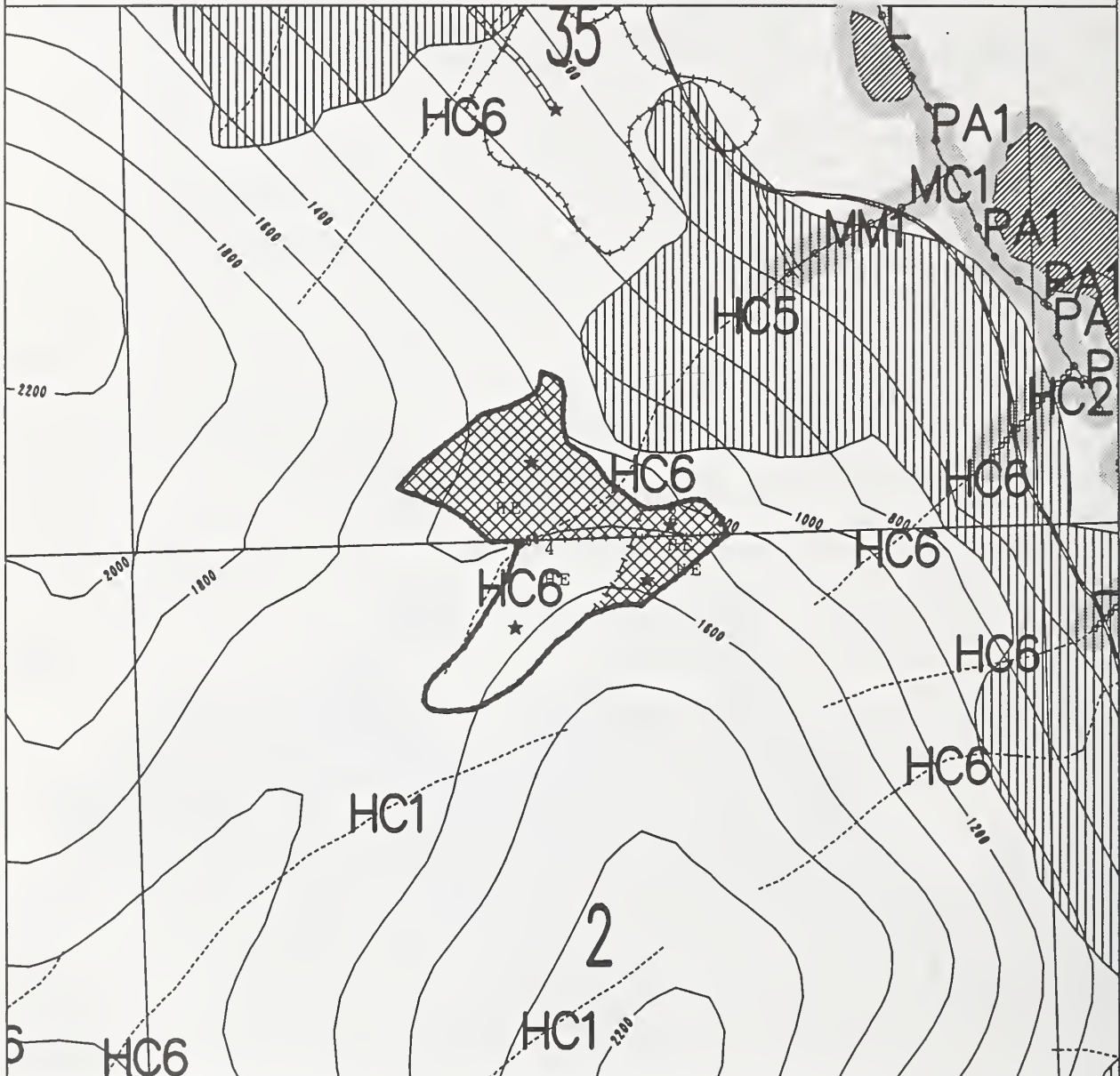
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9076

PLANNED HARVEST UNIT MAP

ACRES: 35 VOLUME: 1201 MBP QUAD(~~K~~)ND5/KTHC5 QUARTER QUAD(+):SWS/NWN
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9079</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>62</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1842</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 62 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 41 acres 800-1200 ft. 21 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 19 acres Medium 0 acres High 0 acres Very High 43 acres
Cedar 0 Hemlock 61 Mixed 0 Percent Seen 41 Percent Unseen 59 Aspect South

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 42 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 62

VOLUME: 1842

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1179-18

LANDNET INFO

TOWNSHIP

71S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

SUBSECTION BOUNDARY

UNIT BOUNDARY

ADJACENT UNIT

OPPORTUNITY ROAD

EXISTING ROAD IN ALT

EXISTING ROAD NOT IN

CLASS I STREAM

CLASS II STREAM

CLASS III STREAM

LTP SYMBOL

0 200 FT CONTOUR INTERVAL 1000 2000feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUPPER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9080</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>28</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1004</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 13 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 13 acres over 1500 ft. 15 acres
Mass movement index: Low 6 acres Medium 0 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 22 Mixed 0 Percent Seen 96 Percent Unseen 4 Aspect South

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9080

NORTH KEVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 28VOLUME: 1004

MBP

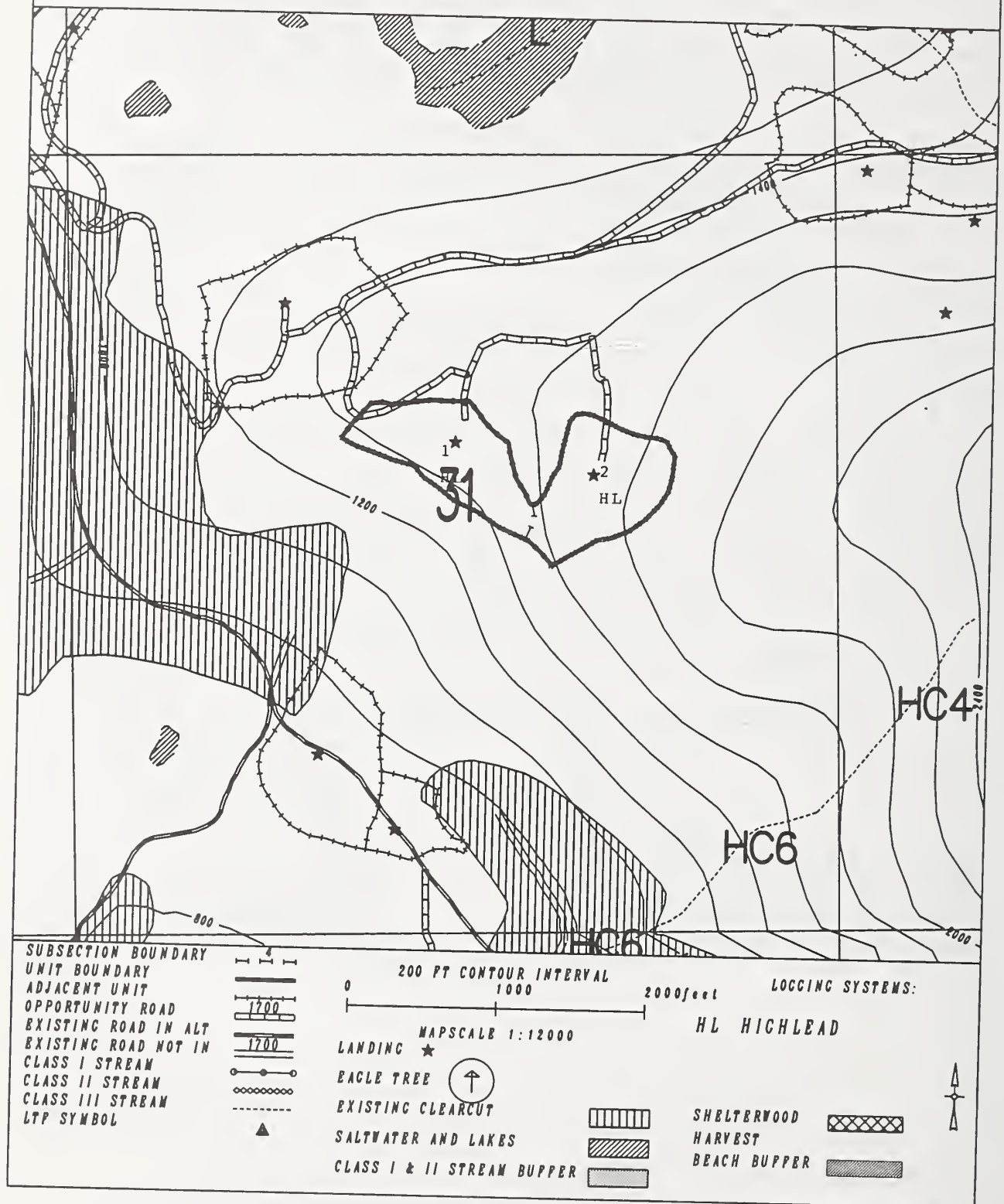
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1179-18

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9081</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>8</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>251</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-9</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 8 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 4 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 5 Mixed 3 Percent Seen 89 Percent Unseen 11 Aspect South

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

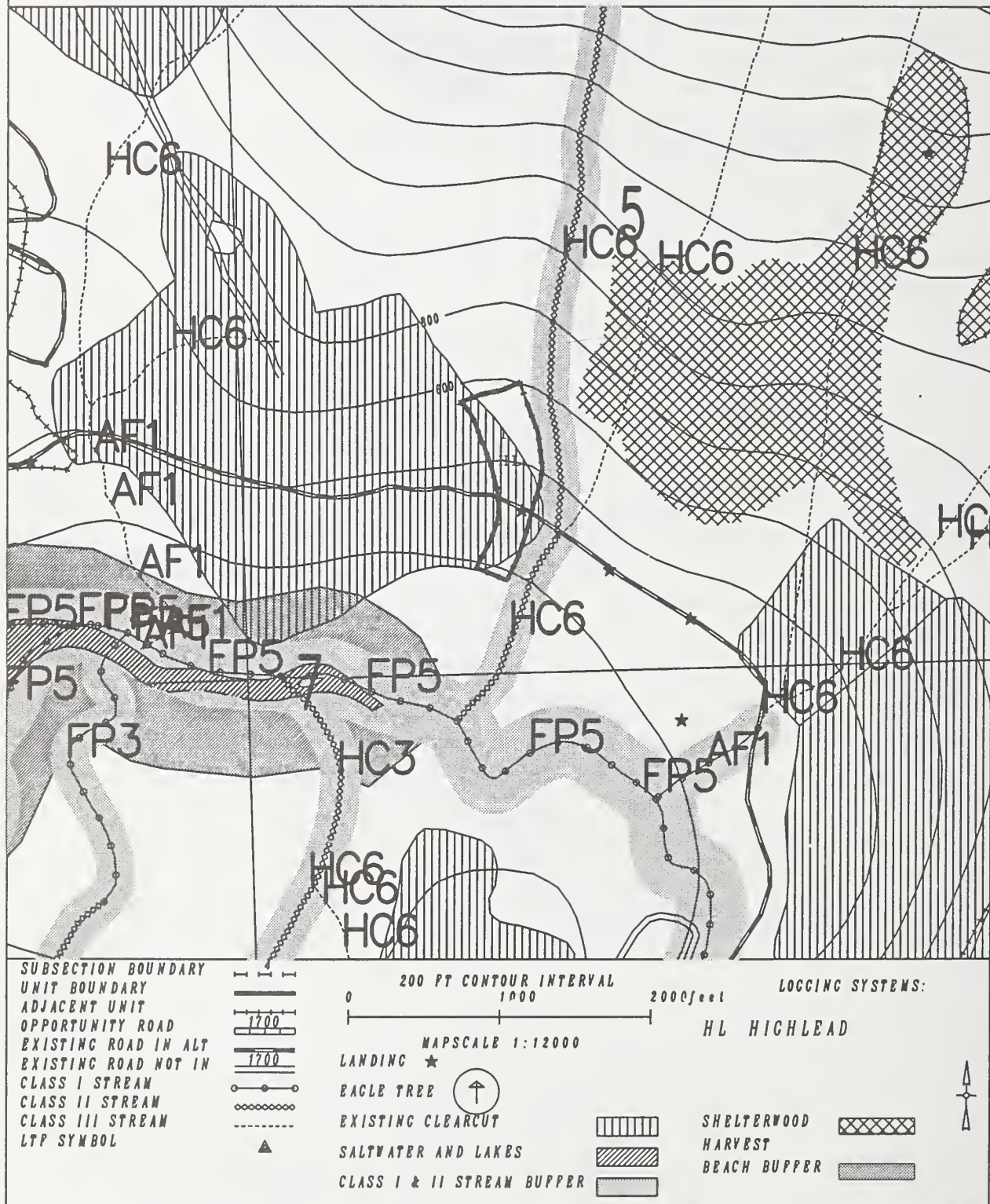
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9081

PLANNED HARVEST UNIT MAP

ACRES: 8 VOLUME: 251 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-9 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9083</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>21</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>557</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-61</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 5 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 18 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

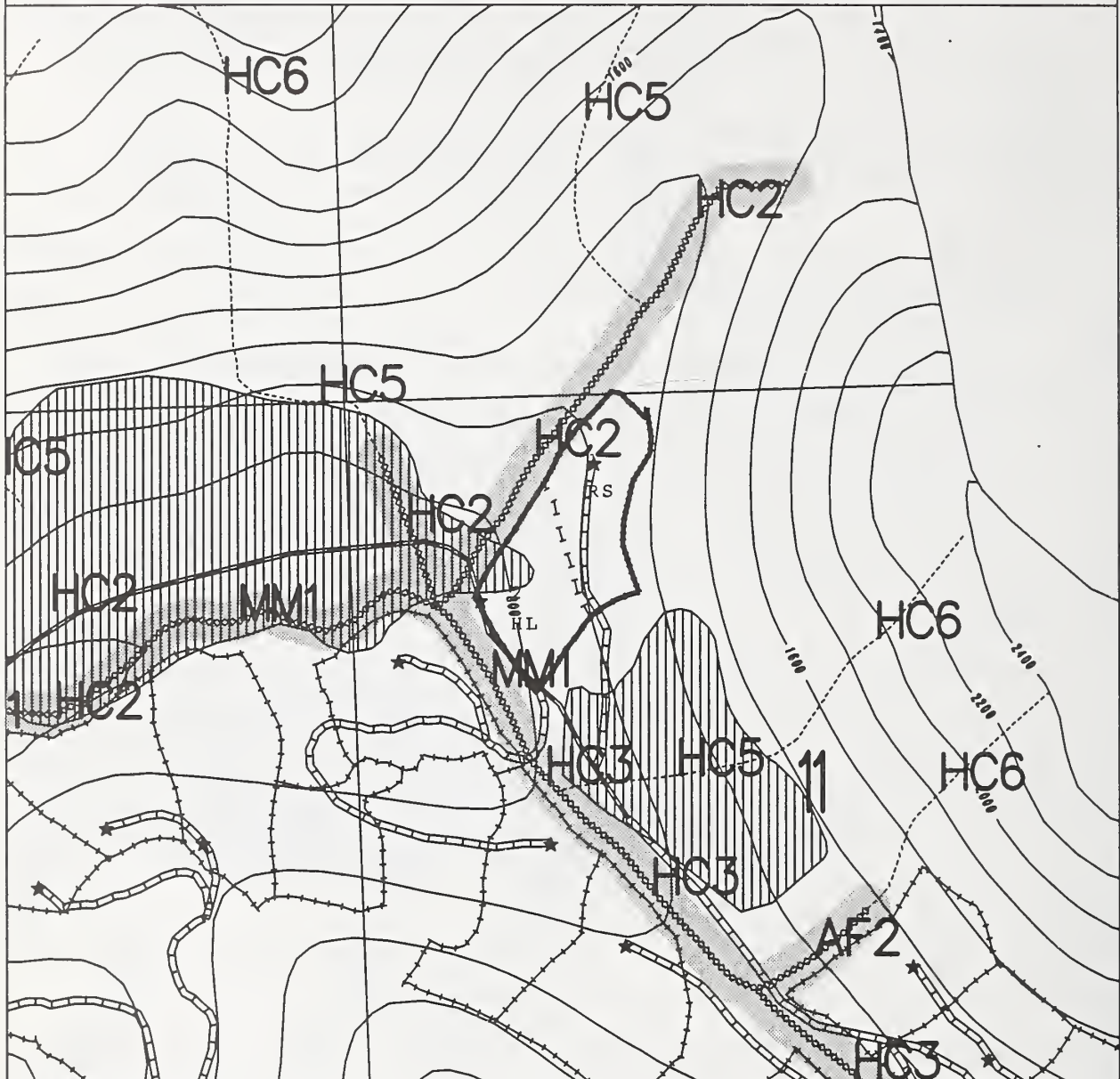
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9083

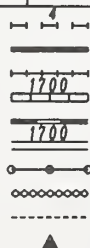
PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 557 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-61 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 BACLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 08, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9084</u>	No. Settings <u>7</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>113</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3859</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 79 acres VC6 33 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 63 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 72 acres High 38 acres Very High 0 acres
Cedar 0 Hemlock 66 Mixed 46 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 113 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 23 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

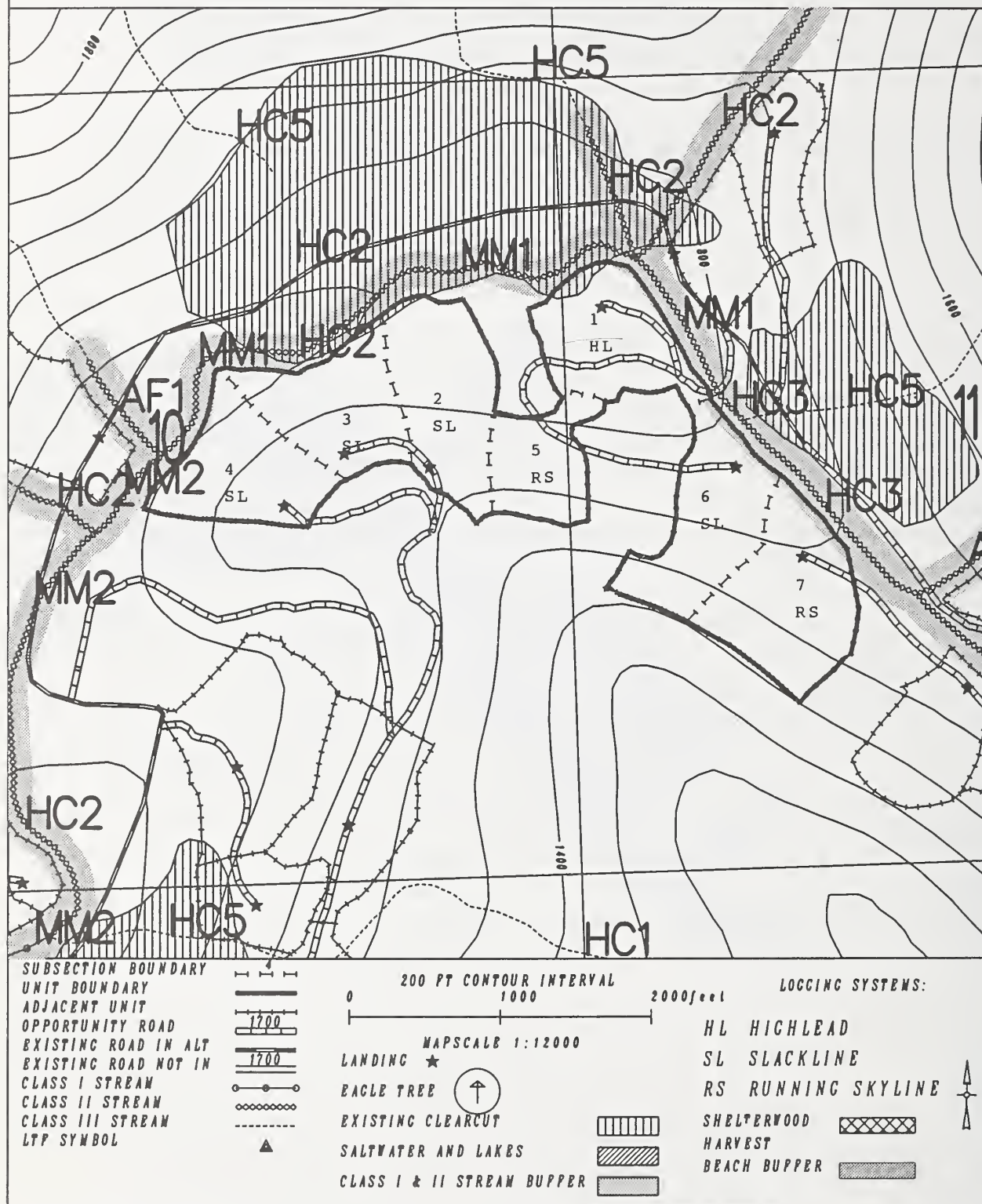
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9084

PLANNED HARVEST UNIT MAP

ACRES: 113 VOLUME: 3859 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9085</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>63</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2242</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 50 acres VC6 0 acres VC7 13 acres
Elevation breakdown: 0-800 ft. 51 acres 800-1200 ft. 14 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 14 acres Medium 8 acres High 44 acres Very High 0 acres
Cedar 0 Hemlock 50 Mixed 13 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 52 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 13 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

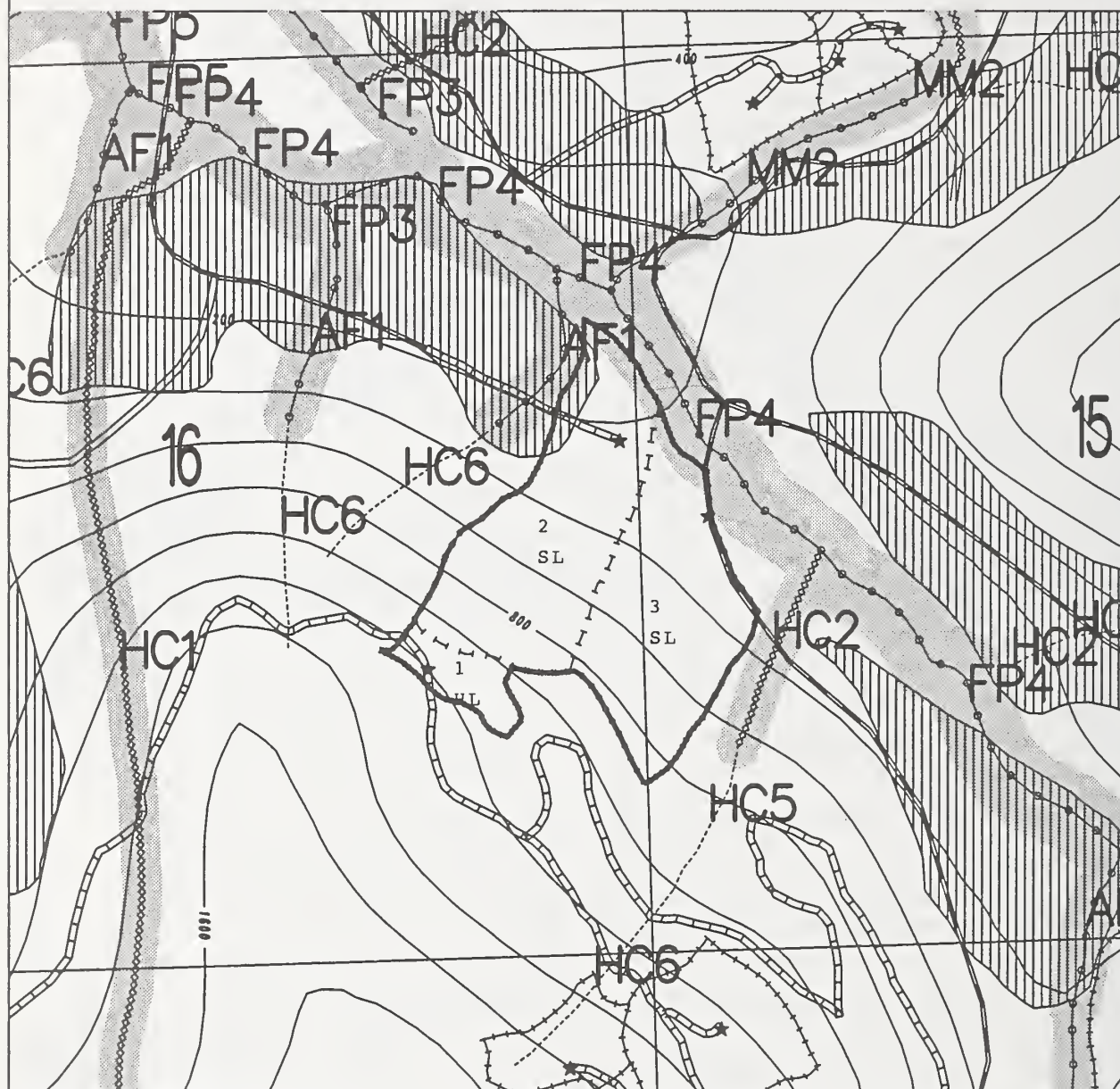
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9085

PLANNED HARVEST UNIT MAP

ACRES: 63 VOLUME: 2242 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE ↑

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9086</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>32</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>946</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 23 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 12 acres 800-1200 ft. 4 acres 1200-1500 ft. 16 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 13 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 32 VOLUME: 946 MBF QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL

200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000

LANDING ★
 BACLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:
 RS RUNNING SKYLINE
 SHELTERWOOD
 HARVEST
 BEACH BUFFER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9087</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>69</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2164</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>SSR</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-66</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 69 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 32 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 45 acres Medium 0 acres High 24 acres Very High 0 acres
Cedar 0 Hemlock 68 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 69 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 41 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9087

PLANNED HARVEST UNIT MAP

ACRES: 69

VOLUME: 2164

MBP

QUAD(s): KTNCS

QUARTER QUAD(s): NWN

PHOTO NUM.:

1279-66

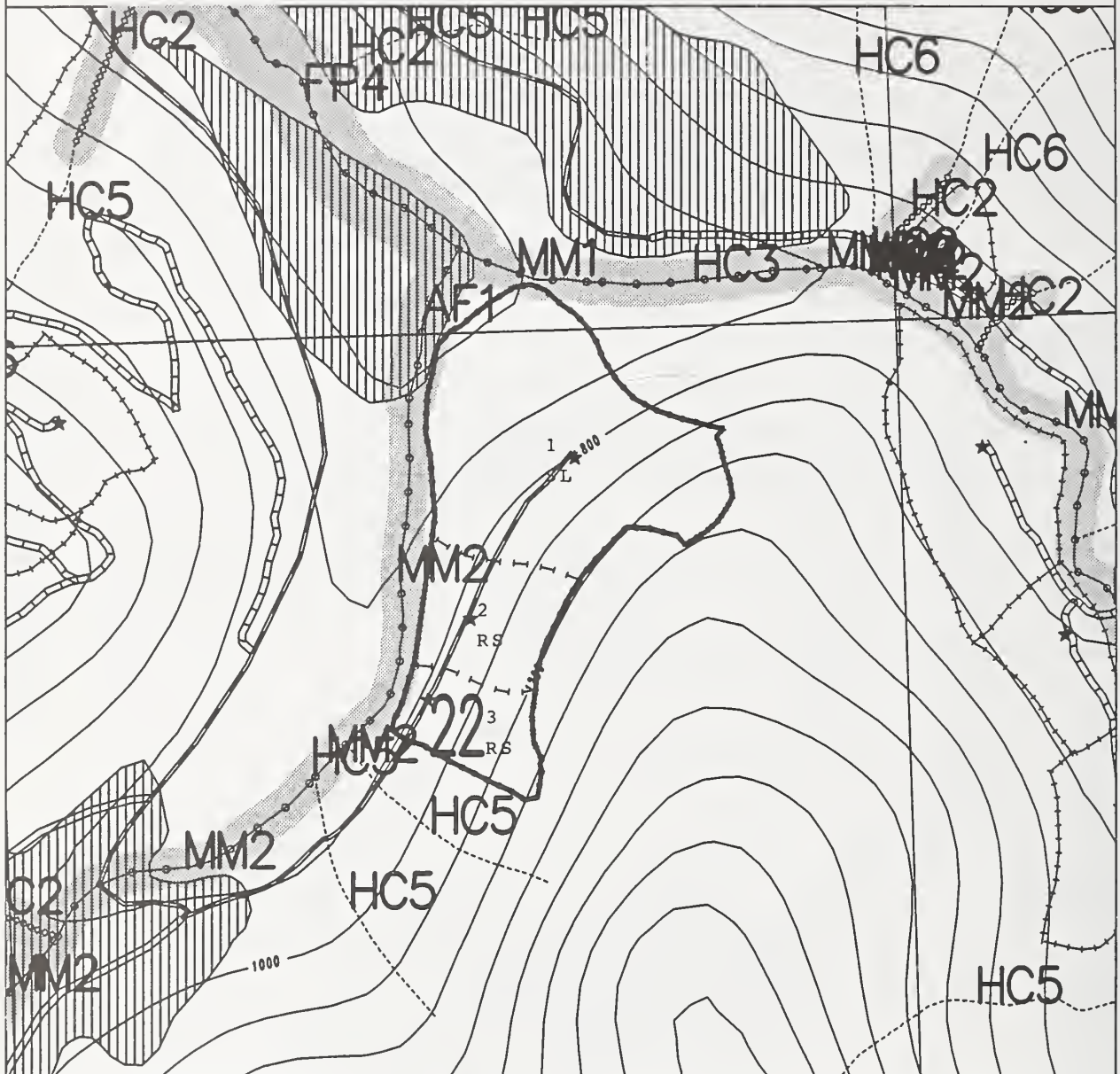
LANDMET INFO

TOWNSHIP

71S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9088</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>25</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>771</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-66</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 10 acres 800-1200 ft. 16 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 24 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

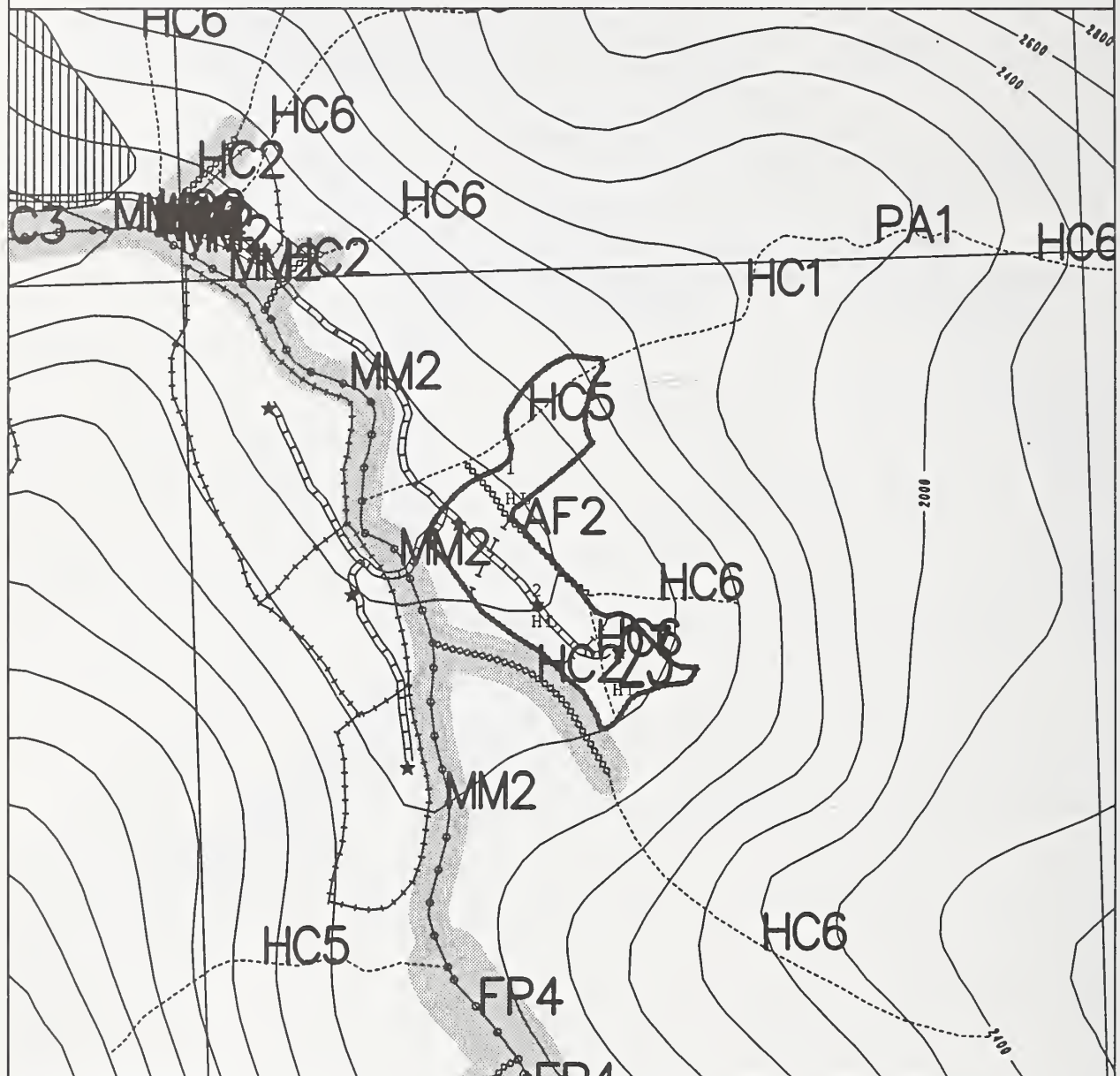
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9088

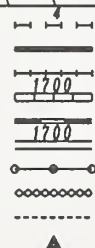
PLANNED HARVEST UNIT MAP

ACRES: 25 VOLUME: 771 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-66 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1900 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



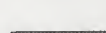
SHELTERWOOD



HARVEST



BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9090</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>24</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>936</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 5 acres VC6 19 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 21 acres 800-1200 ft. 3 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 24 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 10 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

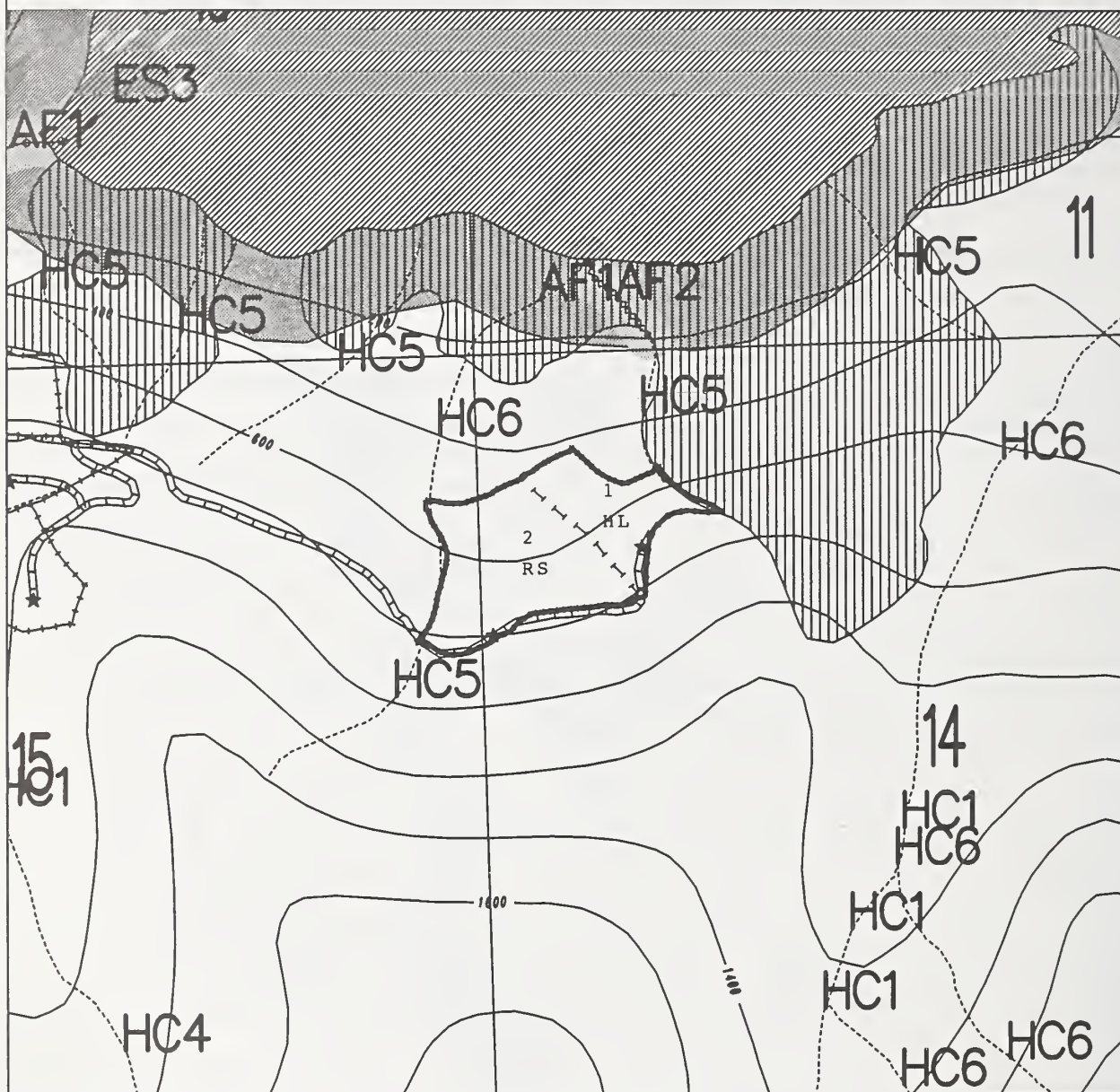
There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9090

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 936 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design at the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★



EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BRASH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9091</u>	No. Settings <u>8</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>76</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2383</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 76 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 53 acres 800-1200 ft. 23 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 38 acres High 37 acres Very High 0 acres
Cedar 0 Hemlock 72 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 60 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390

UNIT NUMBER: 9091

NORTH KEYVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 76

VOLUME: 2383

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWN

PHOTO NUM.: 1179-10

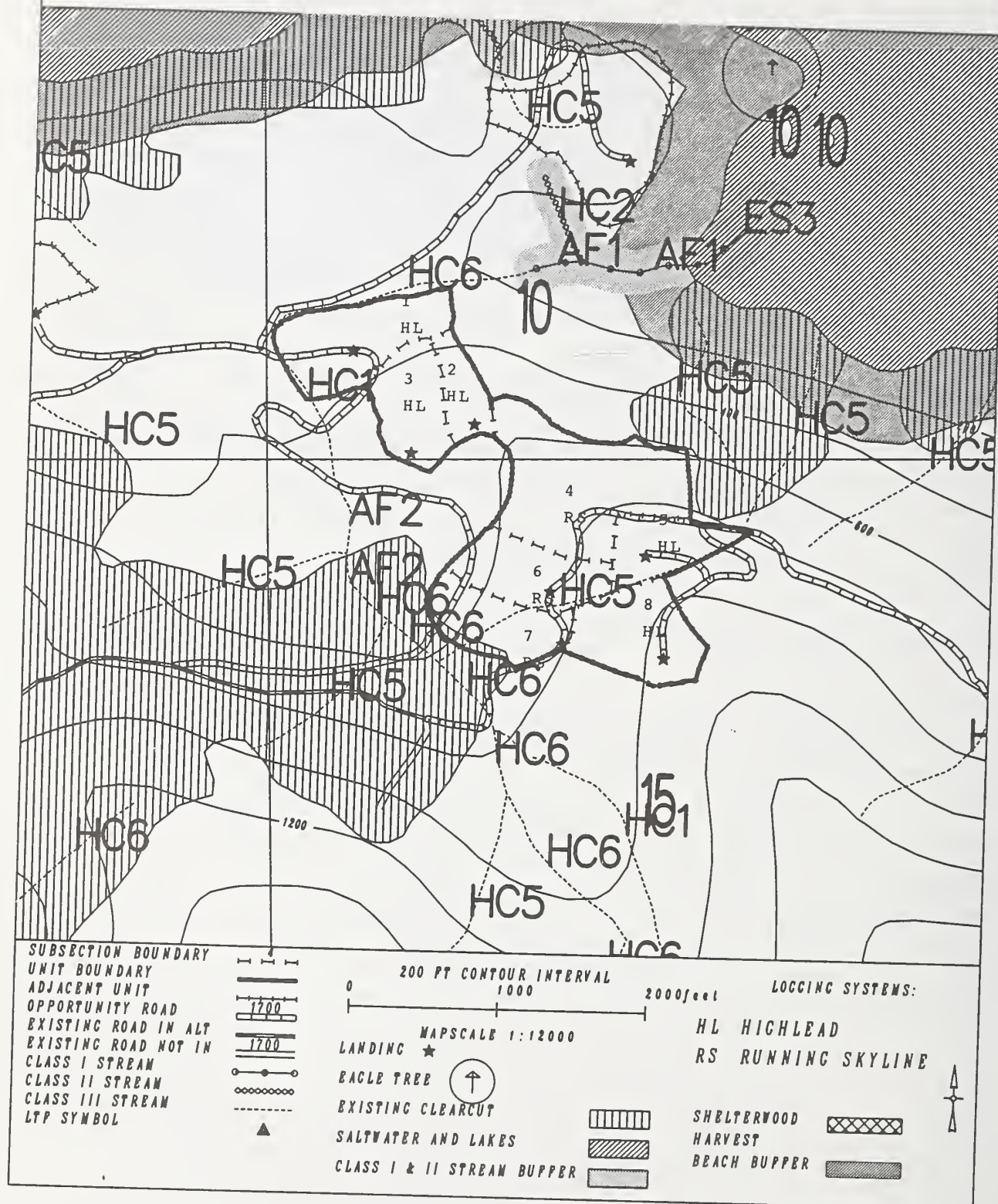
LANDNET INFO

TOWNSHIP

71S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9092</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>20</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>627</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 20 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 2 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9092

NORTH KEYVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 20VOLUME: 627

MBP

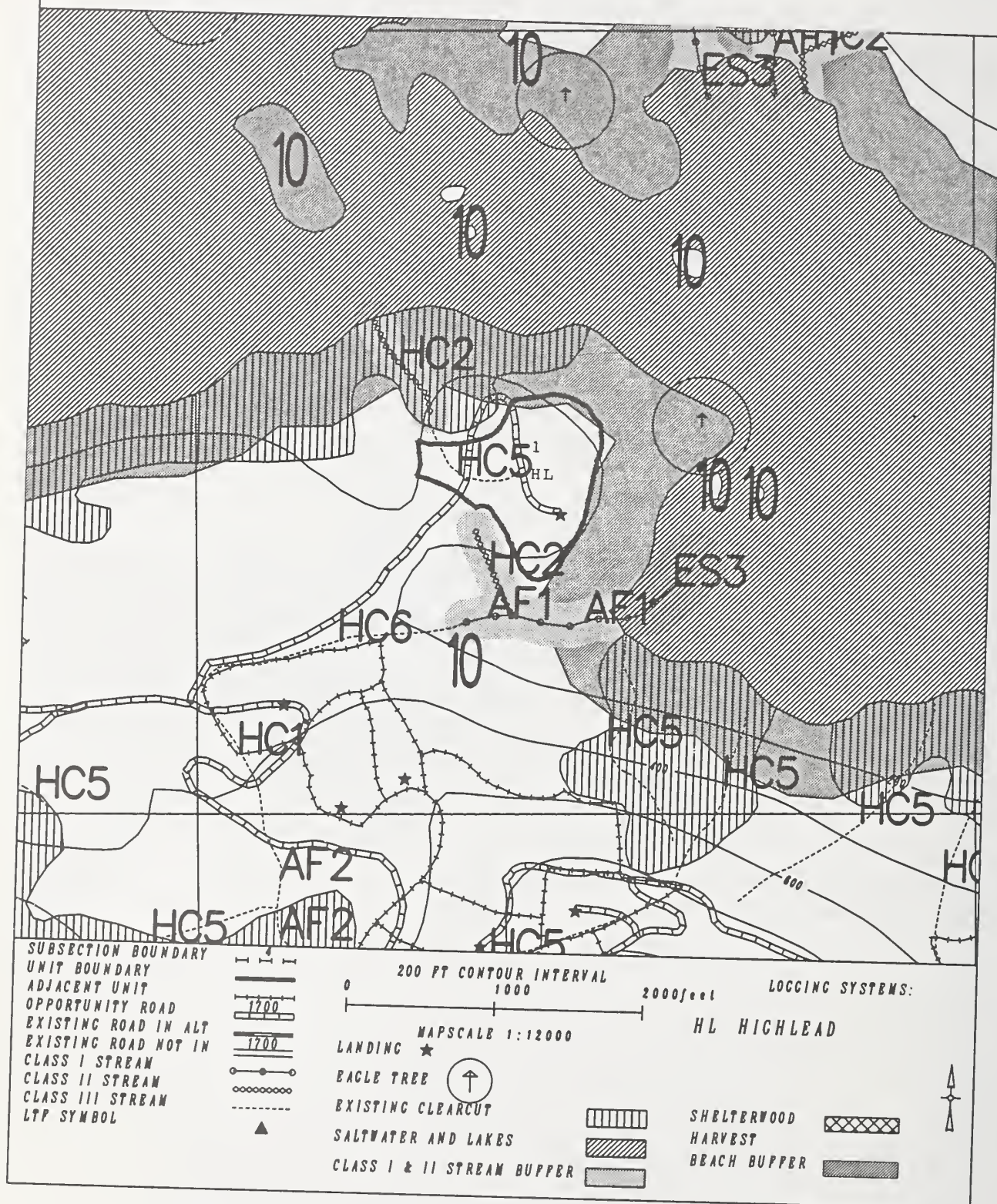
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-10

LANDNET INFO

TOWNSHIP

71SRANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9093</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>6</u>		Quad <u>KTNC5NEW</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>246</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-65</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 6 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 5 acres 800-1200 ft. 1 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 6 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 6 VOLUME: 246 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
PHOTO NUM.: 1279-65 LANDNET INFO TOWNSHIP 71S RANGE 91E

MAPSCALE 1:12000

PACLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOCKING SYSTEMS:

HL HICHL EAD

SHELTERWOOD

HARVEST

BEACH BUPPER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9104</u>	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>75</u>	Quad <u>KTNC5NWN</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2917</u>	Mgmt Area <u>K32</u> VCU <u>7390</u>		Plant Series <u>WDC</u>
Logging methods <u>RS</u>	WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-12</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 15 acres VC6 59 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 28 acres 800-1200 ft. 26 acres 1200-1500 ft. 21 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 73 acres Very High 0 acres
Cedar 0 Hemlock 75 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 75 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 23 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the INNER TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7390UNIT NUMBER: 9104

PLANNED HARVEST UNIT MAP

ACRES: 75VOLUME: 2917

MBP

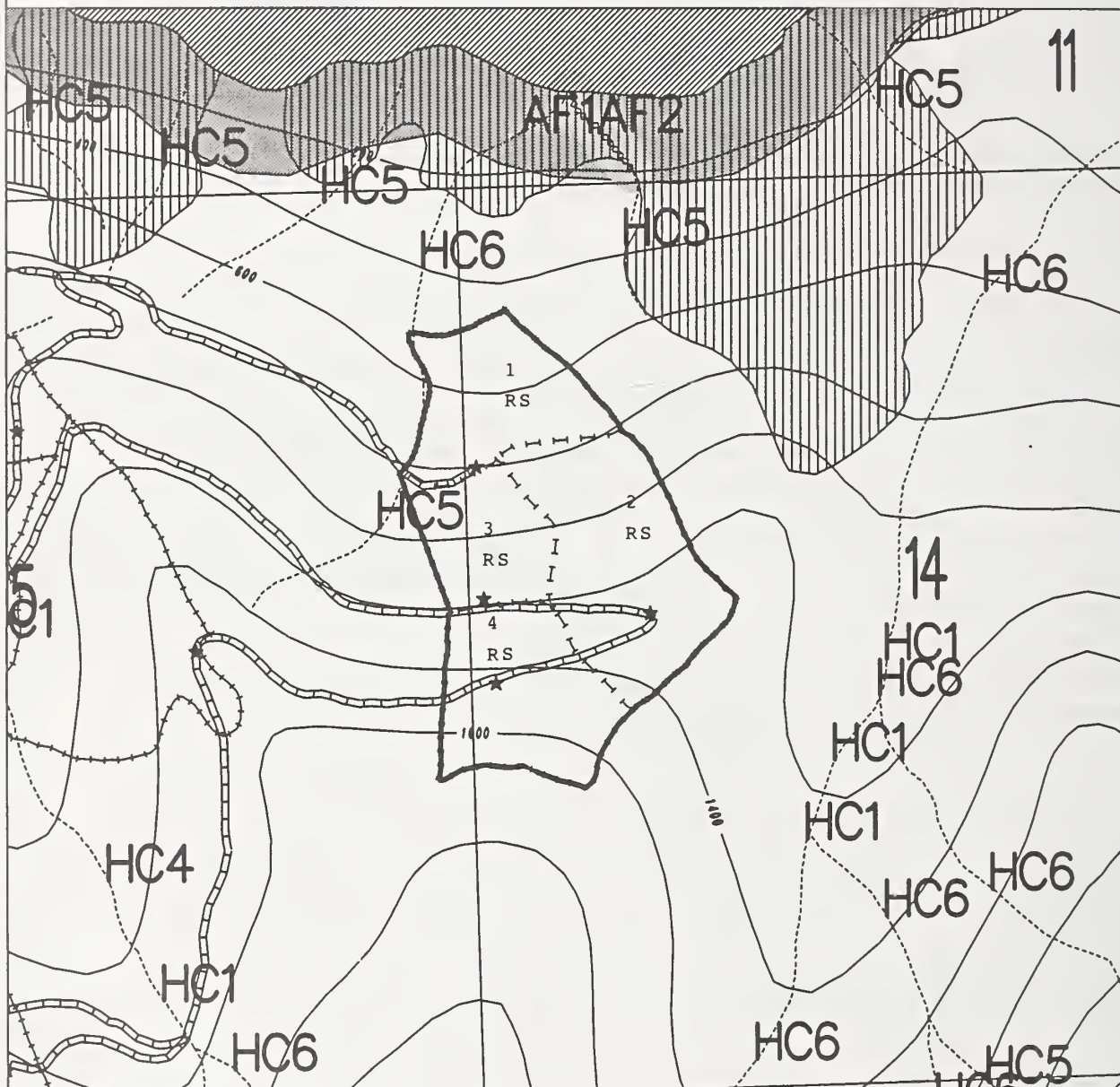
QUAD(s): KTNC5QUARTER QUAD(s): NWNPHOTO NUM.: 1179-12

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9105</u>	No. Settings <u>3</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>21</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>659</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 21 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 18 acres Medium 3 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 6 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 6 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

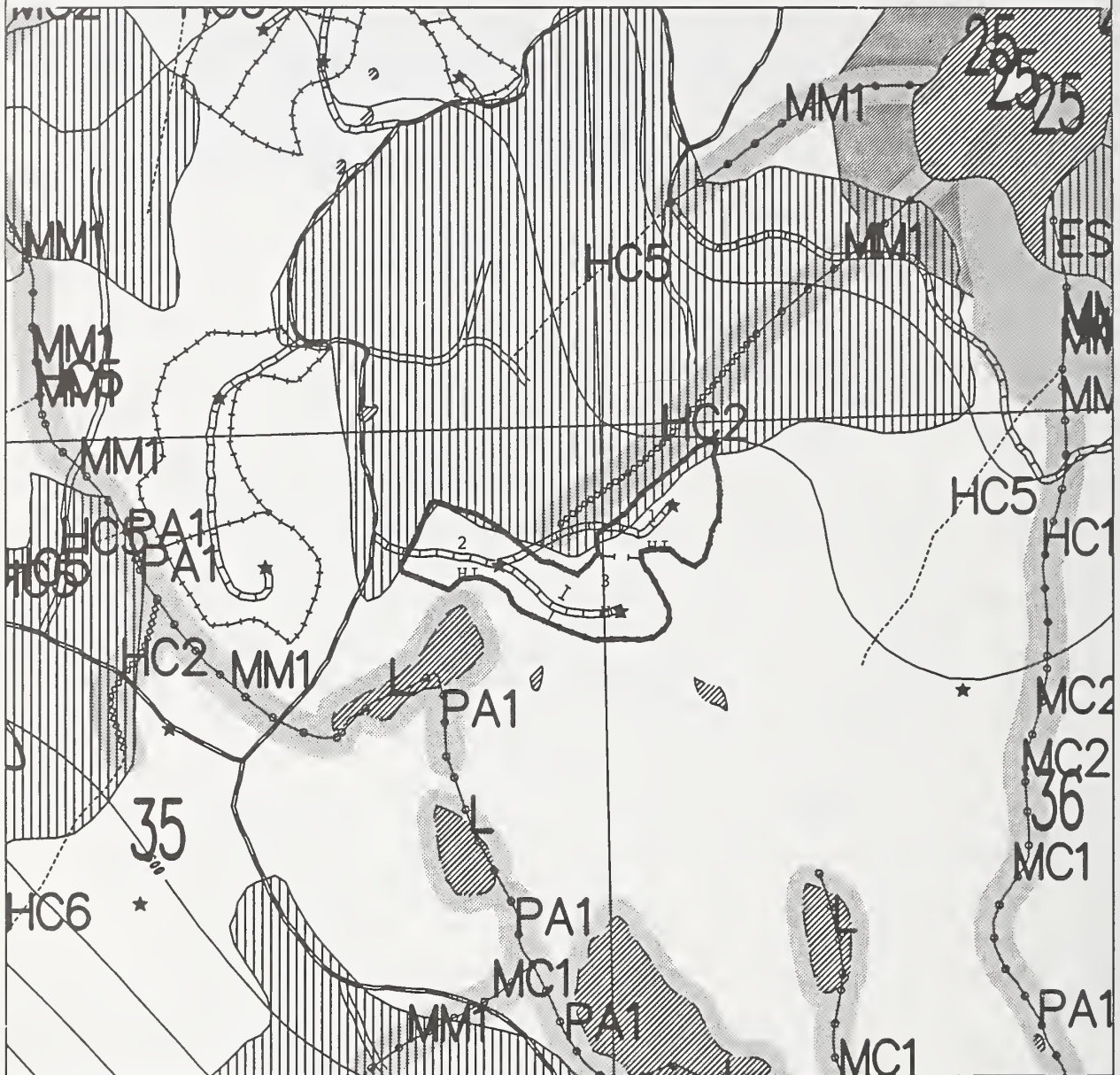
VCU: 7370

UNIT NUMBER: 9105

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 659 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER

July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9107</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>97</u>	Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>	
Estimated volume (mbf) <u>2901</u>	Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>	
Logging methods <u>HL</u> <u>RS</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>	
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-12</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 22 acres VC5 75 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 57 acres 1200-1500 ft. 23 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 28 acres High 56 acres Very High 0 acres
Cedar 0 Hemlock 98 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 46 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

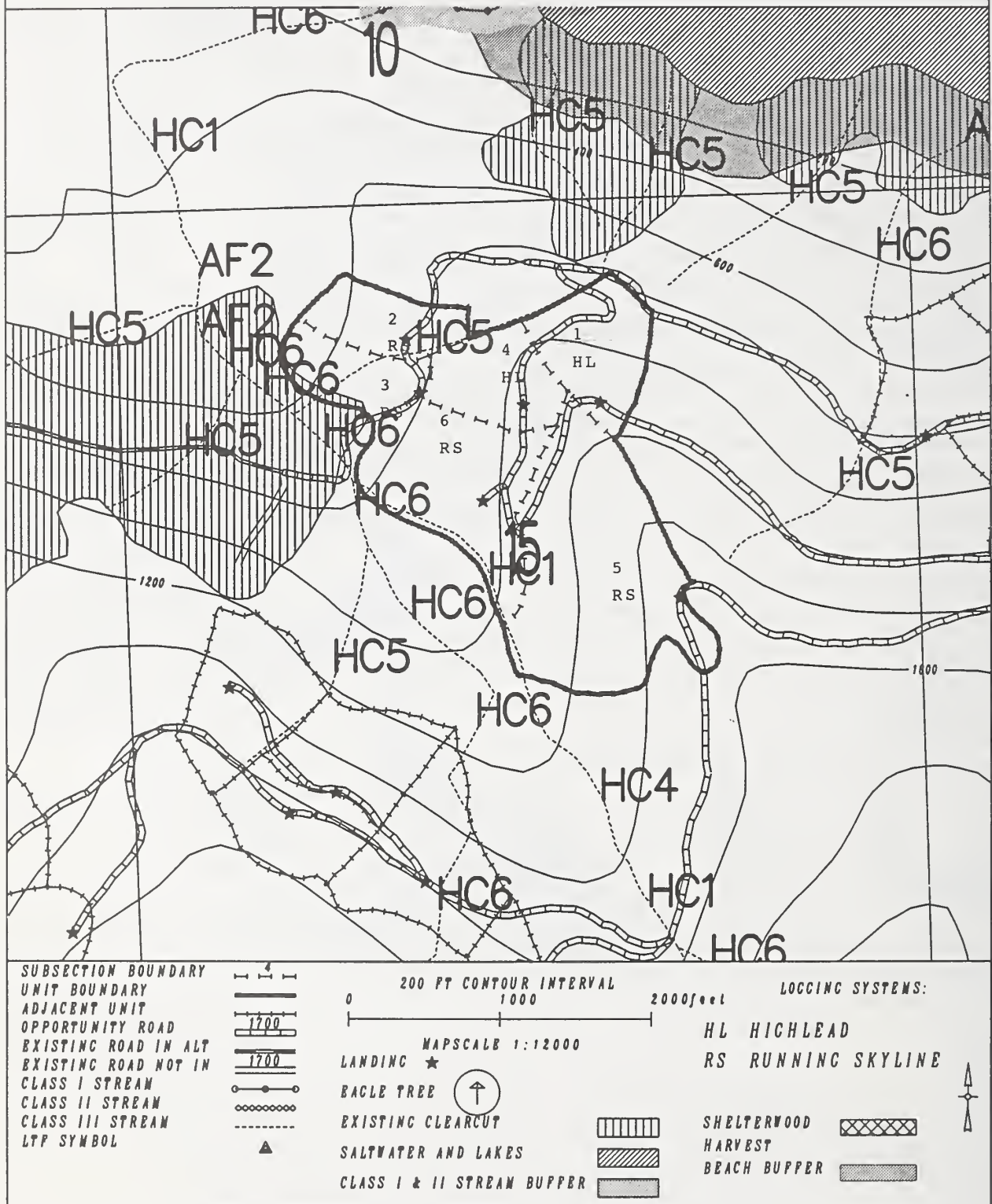
VCU: 7390

UNIT NUMBER: 9107

PLANNED HARVEST UNIT MAP

ACRES: 97 VOLUME: 2901 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9108</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>30</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>959</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-63</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 2 acres VC5 28 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 10 acres 1200-1500 ft. 16 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 7 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 28 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

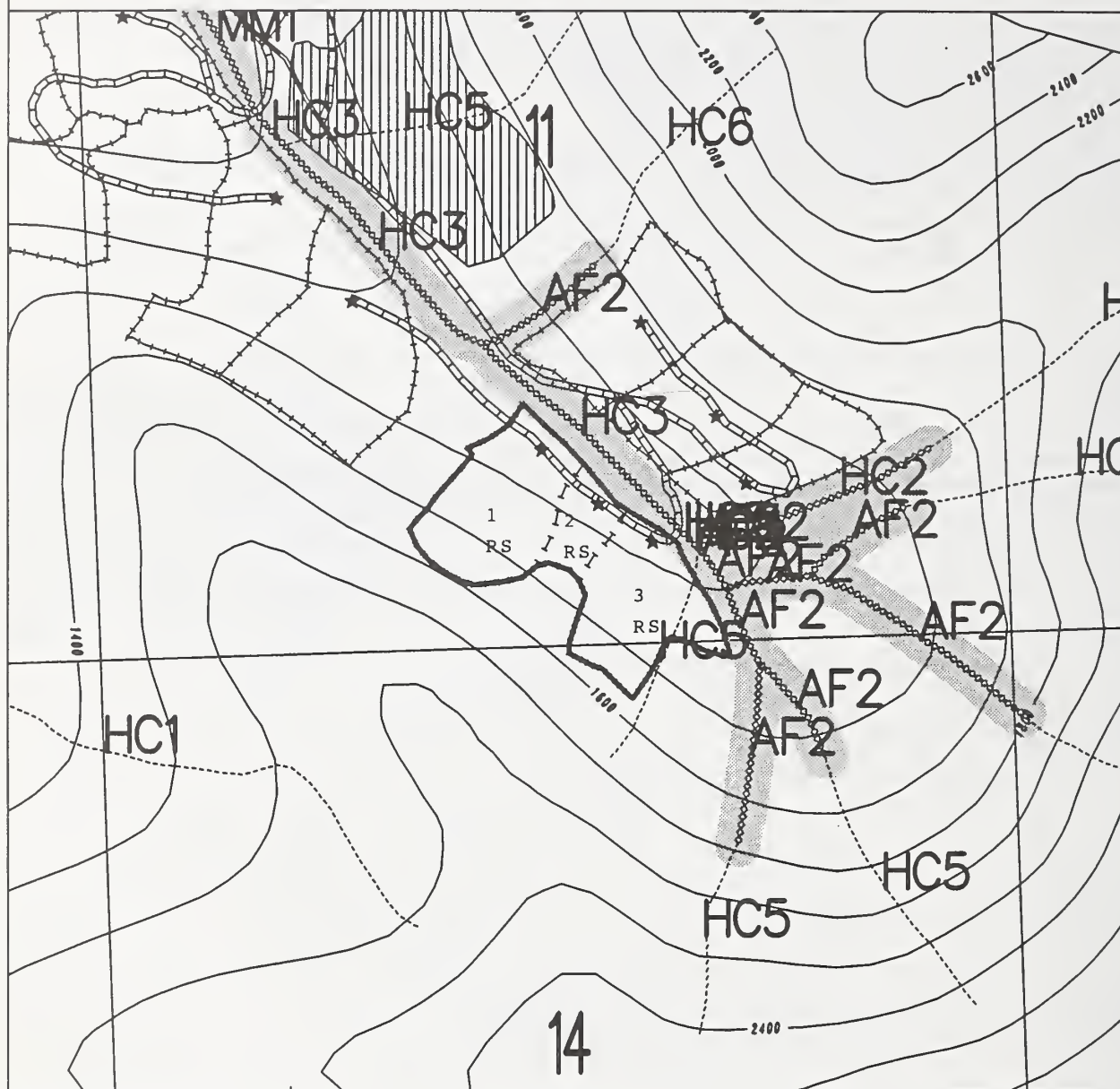
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9108

PLANNED HARVEST UNIT MAP

ACRES: 31 VOLUME: 959 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-63 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BUCK TREE (X)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9529</u>	No. Settings <u>9</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>100</u>		Quad <u>KTNC5NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3023</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>CMB</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-26</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 31 acres VC5 69 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 41 acres 800-1200 ft. 42 acres 1200-1500 ft. 18 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 44 acres High 52 acres Very High 0 acres
Cedar 0 Hemlock 101 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 101 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Replanting of sitka spruce should be considered.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.86 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

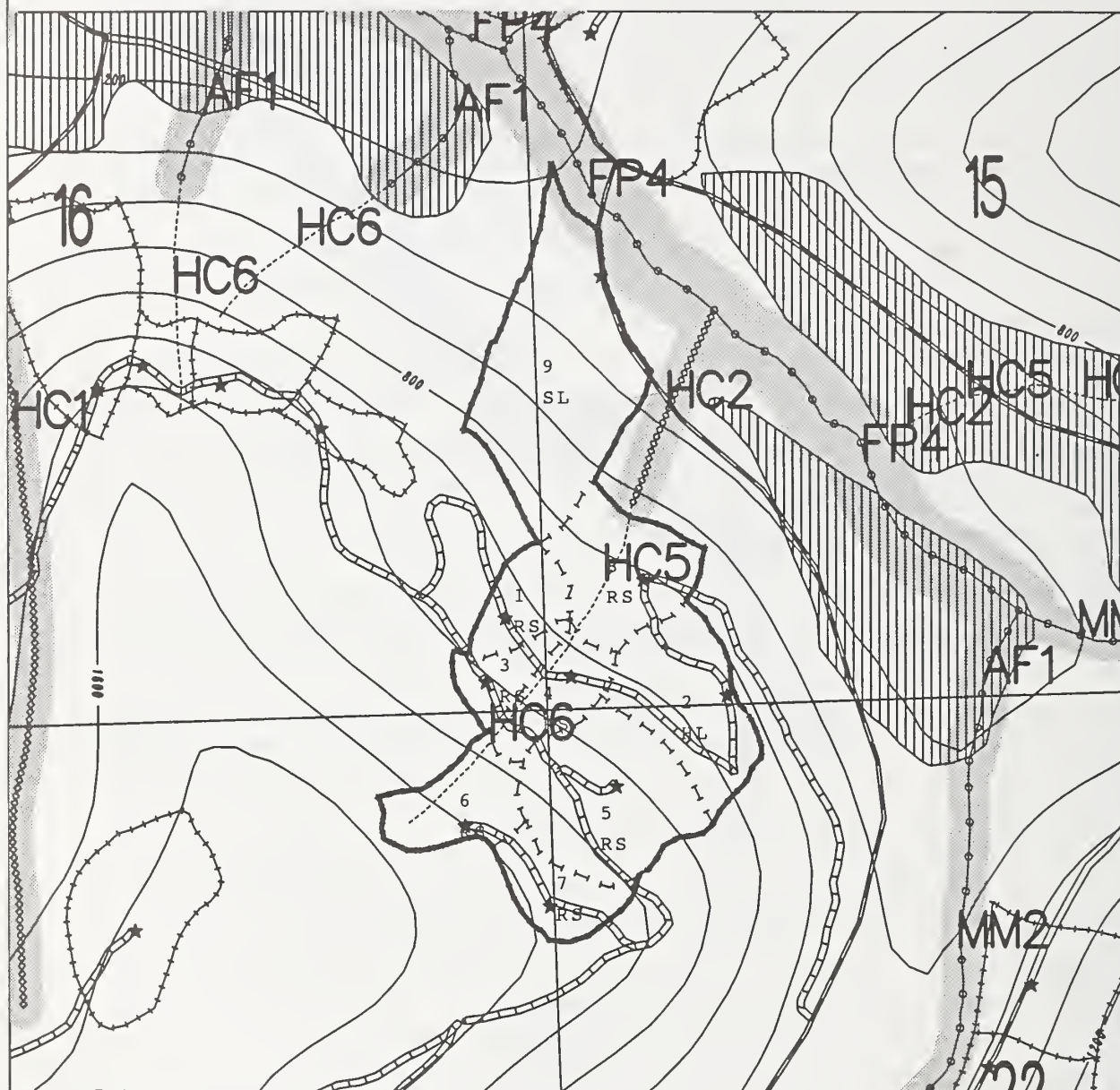
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9529

PLANNED HARVEST UNIT MAP

ACRES: 101 VOLUME: 3023 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1279-26 LANDNET INFO TOWNSHIP 71S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD
 SL SLACKLINE
 SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 14, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>9569</u>	No. Settings <u>1</u>	Alternatives considered <u>6</u>	VQO <u>M</u>
Planned acres <u>6</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>218</u>		Mgmt Area <u>K32</u> VCU <u>7390</u>	Plant Series <u>WHM</u>
Logging methods <u>HL 75</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 3 acres VC6 3 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 0 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 3 Mixed 3 Percent Seen 56 Percent Unseen 43 Aspect East

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

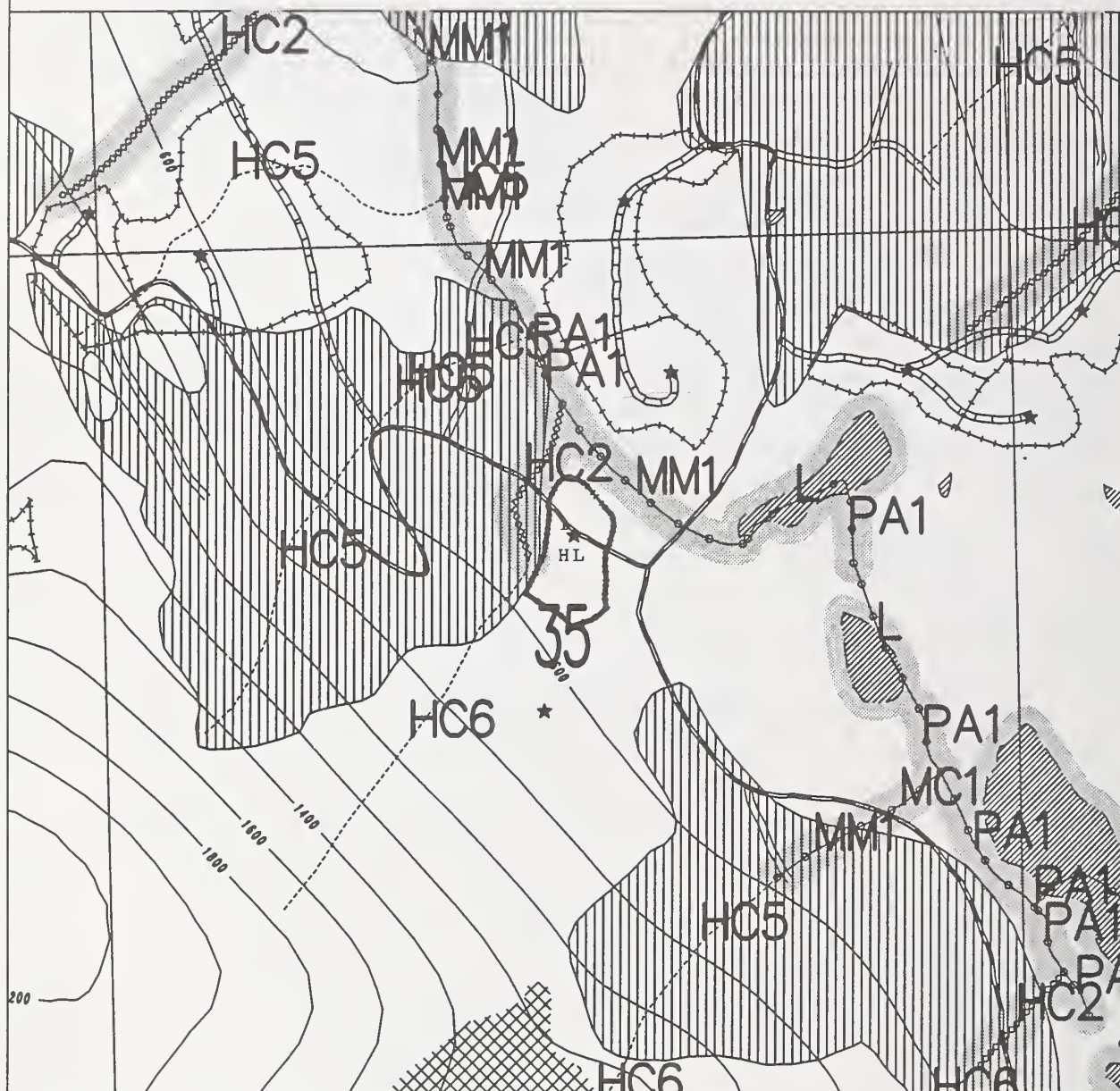
There are no geological mitigation measures anticipated for this unit.

VCU: 7390 UNIT NUMBER: 9569

PLANNED HARVEST UNIT MAP

ACRES: 6 VOLUME: 218 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 09, 1993

Road Cards

APPENDIX K

Road Design Cards

Access Management

The project area is isolated from other major road systems. Accordingly, only intermittent resource management and off-road vehicular and foot traffic is expected.

During resource management activity, the roads will be maintained commensurate with that activity. After completion of the management activity, the roads will revert to the following maintenance levels.

Maintenance level 1 roads are closed by bridge removal or organic encroachment and are monitored for resource protection.

Maintenance level 2 roads are maintained for high clearance vehicles and monitored for resource protection.

Accordingly, the road management strategy is as follows.

Main trunk roads will receive long-term access for forest administration such as future timber or salvage sales, fish pass access, and maintenance and traffic associated with special use permits. Such roads will remain open for high clearance vehicular traffic.

Several roads are expected to be used for long term cyclic forest administrative activities with minimal use expected for moderately long periods of time. Accordingly, such roads will be left open for high clearance vehicles. However, the entire road template will be seeded. This will include the road surface and the cut and fill slopes.

Seeding of the road bed is a technique to retard alder growth, achieve low maintenance costs, and reduce road reactivation costs when re-used for transporting forest products.

Numerous roads are expected to be used intermittently with long periods of non-use. Such roads will be allowed to revegetate naturally over time, resulting in eventual closure to vehicular traffic (organic closure). Modular bridges will be removed upon completion of harvest activities. Other drainage structures will be left in place.

Road Design Cards

The road cards display roads contained in alternatives 1 through 6 collectively. Accordingly, each alternative may or may not include all of, or portions of, each road displayed.

For clarity, the 330 foot eagle nest buffer is shown only where roads are within the buffer.

Some existing roads displayed on the road cards to not reflect stream crossings as drainage structure replacement was not anticipated. Should it be found necessary to replace structures on such roads, the structures will be reconstructed in accordance with pertinent BMPs and design standards as used for new facilities.

Due to map scale, road cards do not reflect many roads 1/4 mile and under. See Unit Cards for details concerning such roads.

Following is an index map portraying the location of the road card maps within the project area.

A

B

C

D

E

1

1

2

2

3

3

4

4

5

5

6

6

INDEX TO ROAD DESIGN CARD MAPS
North Revilla Project Area

A

B

C

D

E

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 735

Quadrangle: Ketchikan D-5, D-6

ROAD CARD MAP NUMBER: A-1

Map A-1



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



Class I Stream



Class II Stream



Class III Stream

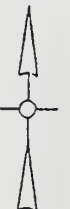


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1000		X			X					C	1
1009		X		X	X		X			C	1
1011		X								C	1
1012		X								C	1
1014		X								C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

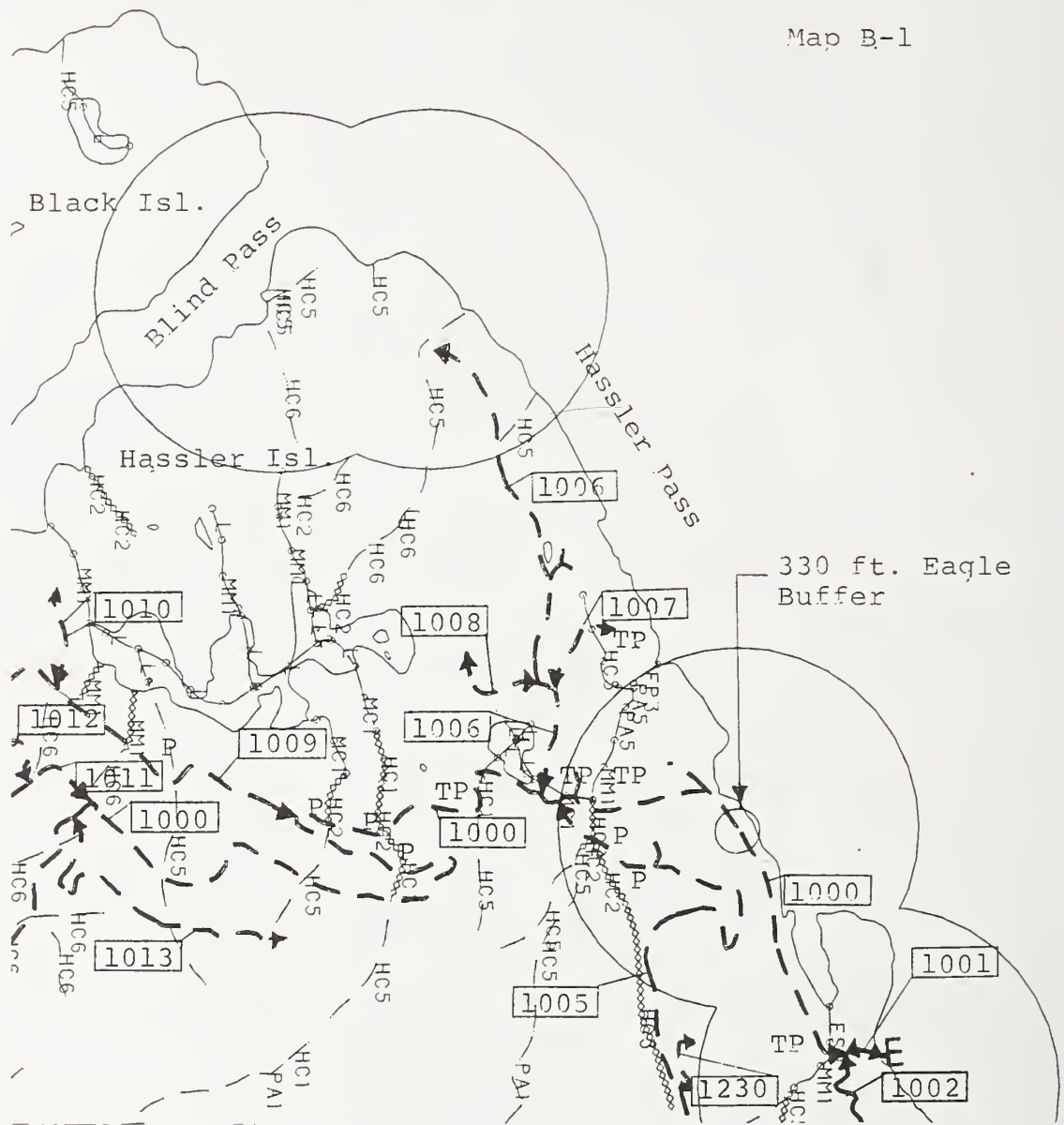
NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 735

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: B-1

Map B-1



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



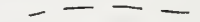
Class I Stream



Class II Stream



Class III Stream

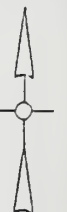


Crossings (timing/passage)

T/P

Scale: 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1000		X	X	X	X	X	X	X	X	O SEEDED	1
1001		X						X		O SEEDED	1
1002	X				X			X		C	1
1005		X		X	X		X	X		C	1
1006		X	X		X	X	X	X		C	1
1007		X	X		X	X	X			C	1
1008		X								C	1
1009		X		X	X		X			C	1
1010		X								C	1
1011		X								C	1
1012		X								C	1
1013		X			X					C	1
1230		X								C	1

E EXISTING ROAD
P PROPOSED ROAD
O OPEN TO HIGH CLEARANCE TRAFFIC
C ORGANIC CLOSURE OR
MODULAR BRIDGE REMOVAL

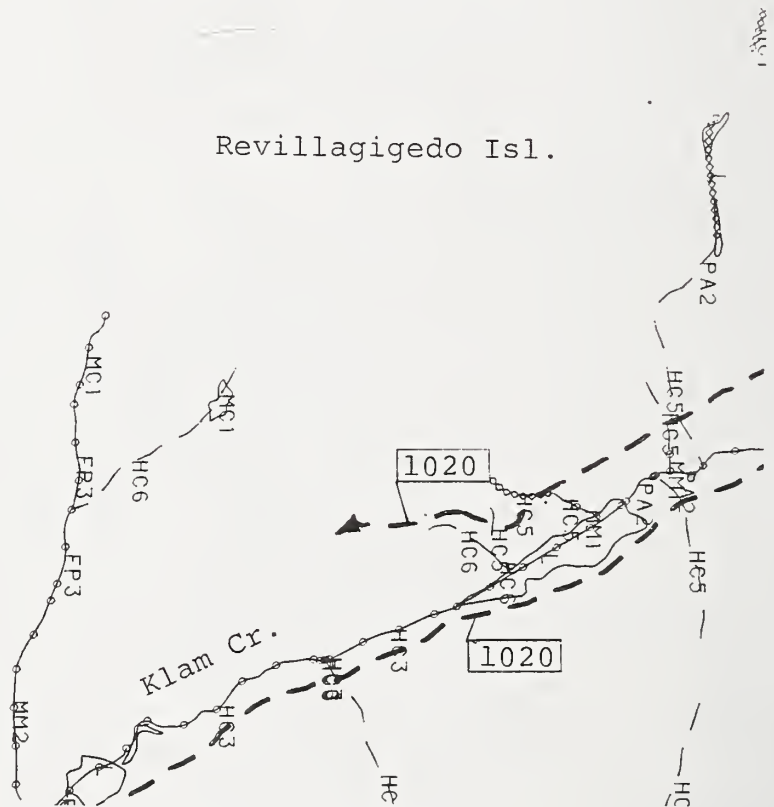
NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 732

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: D-1

Map D-1



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



Class I Stream



Class II Stream



Class III Stream

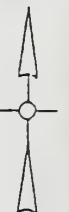


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



MAP D-1

E	EXISTING ROAD
P	PROPOSED ROAD
O	OPEN TO HIGH CLEARANCE TRAFFIC
C	ORGANIC CLOSURE OR MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 732

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: E-1

Map E-1



LEGEND:

Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone

—

- - -

—



Class I Stream

Class II Stream

Class III Stream

Crossings (timing/passage)

Scale : 2 Inch per Mile

—

—

- - -

T/P

NORTH



MAP E-1

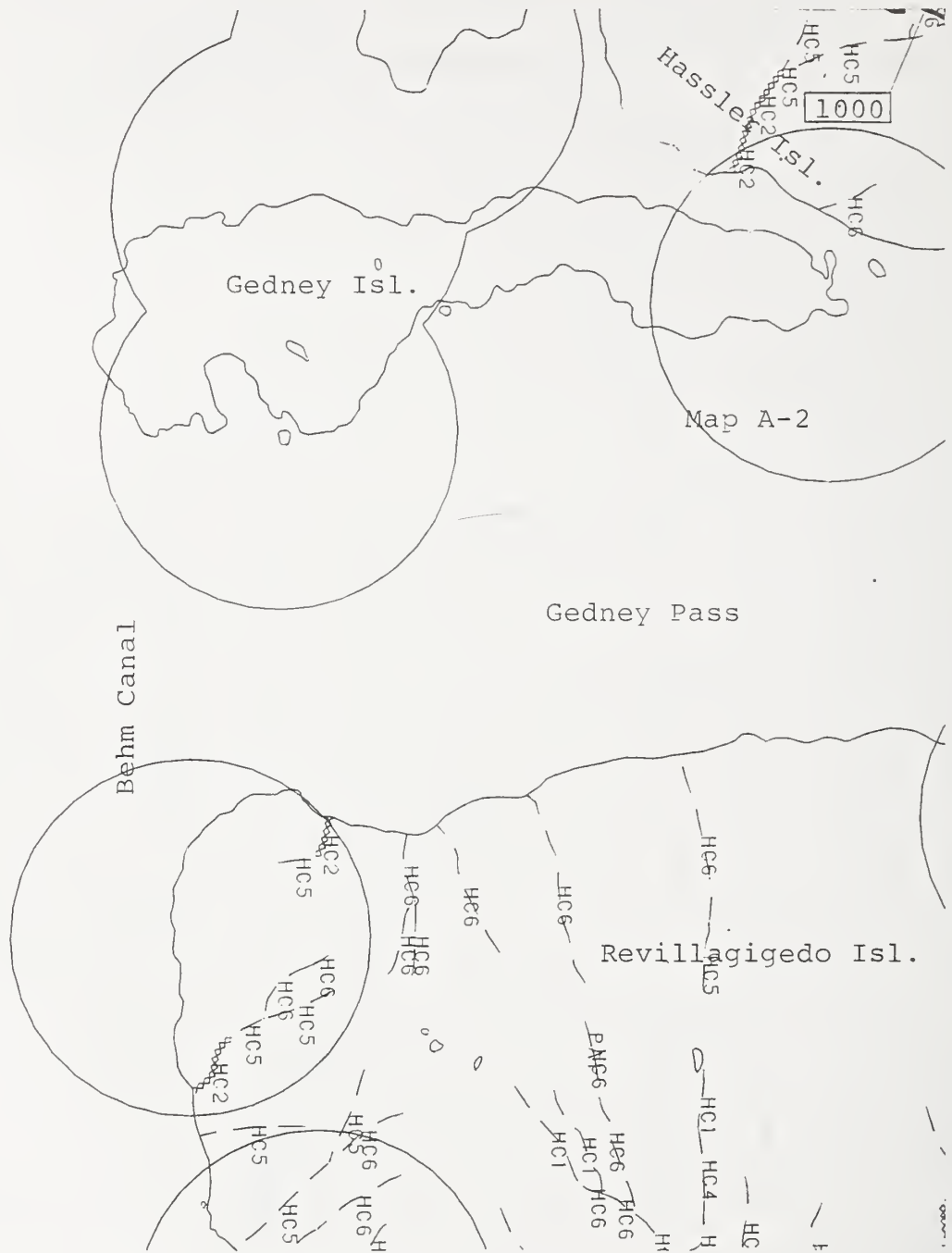
E	EXISTING ROAD
P	PROPOSED ROAD
O	OPEN TO HIGH CLEARANCE TRAFFIC
C	ORGANIC CLOSURE OR MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 735, 736

Quadrangle: Ketchikan D-5, D-6

ROAD CARD MAP NUMBER: A-2



LEGEND:

Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone

—

- - -

—



Class I Stream

Class II Stream

Class III Stream

Crossings (timing/passage)

Scale : 2 Inch per Mile

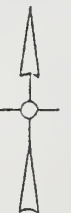
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T/P

NORTH



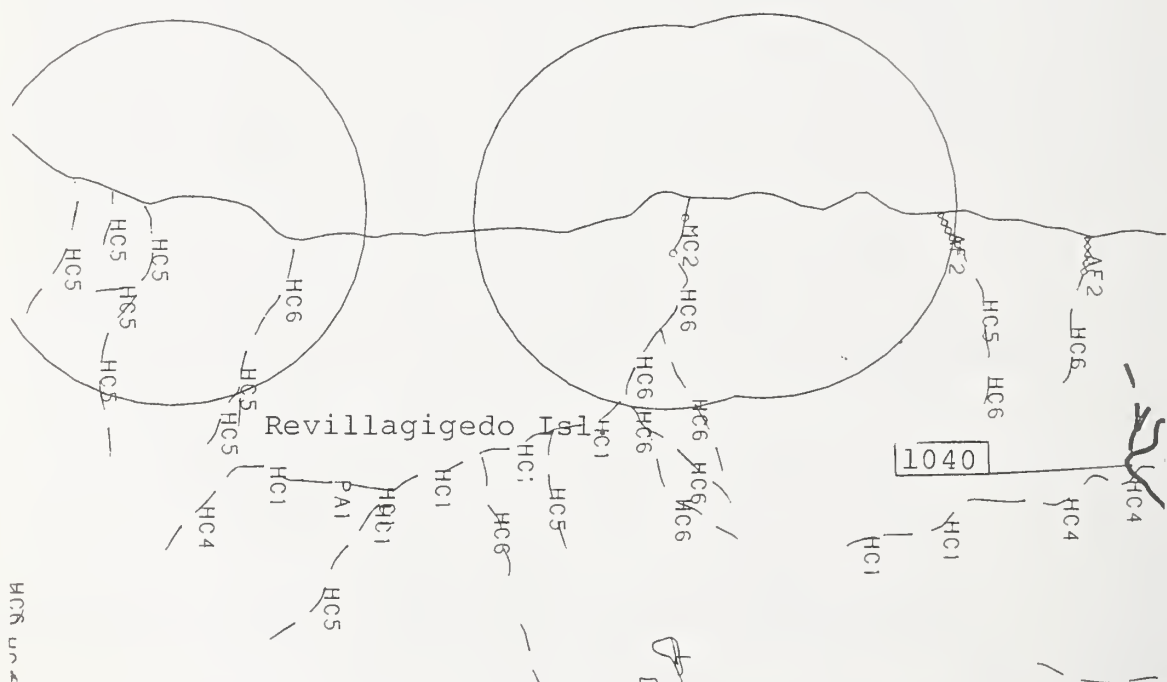
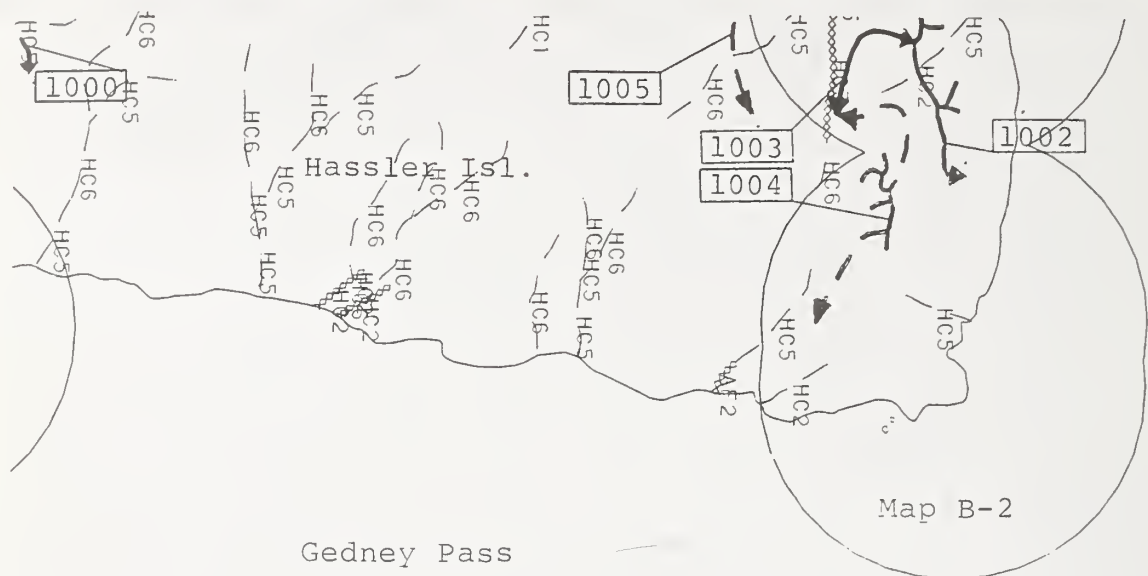
E	EXISTING ROAD
P	PROPOSED ROAD
O	OPEN TO HIGH CLEARANCE TRAFFIC
C	ORGANIC CLOSURE OR MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 735, 736

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: B-2



LEGEND:

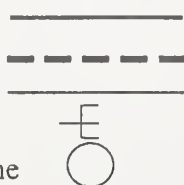
Existing Road

Planned Road

Shoreline

Log Tranfer Facility

Eagle Disturbance Zone



Class I Stream

Class II Stream

Class III Stream

Crossings (timing/passage) T/P

Scale : 2 Inch per Mile



T/P



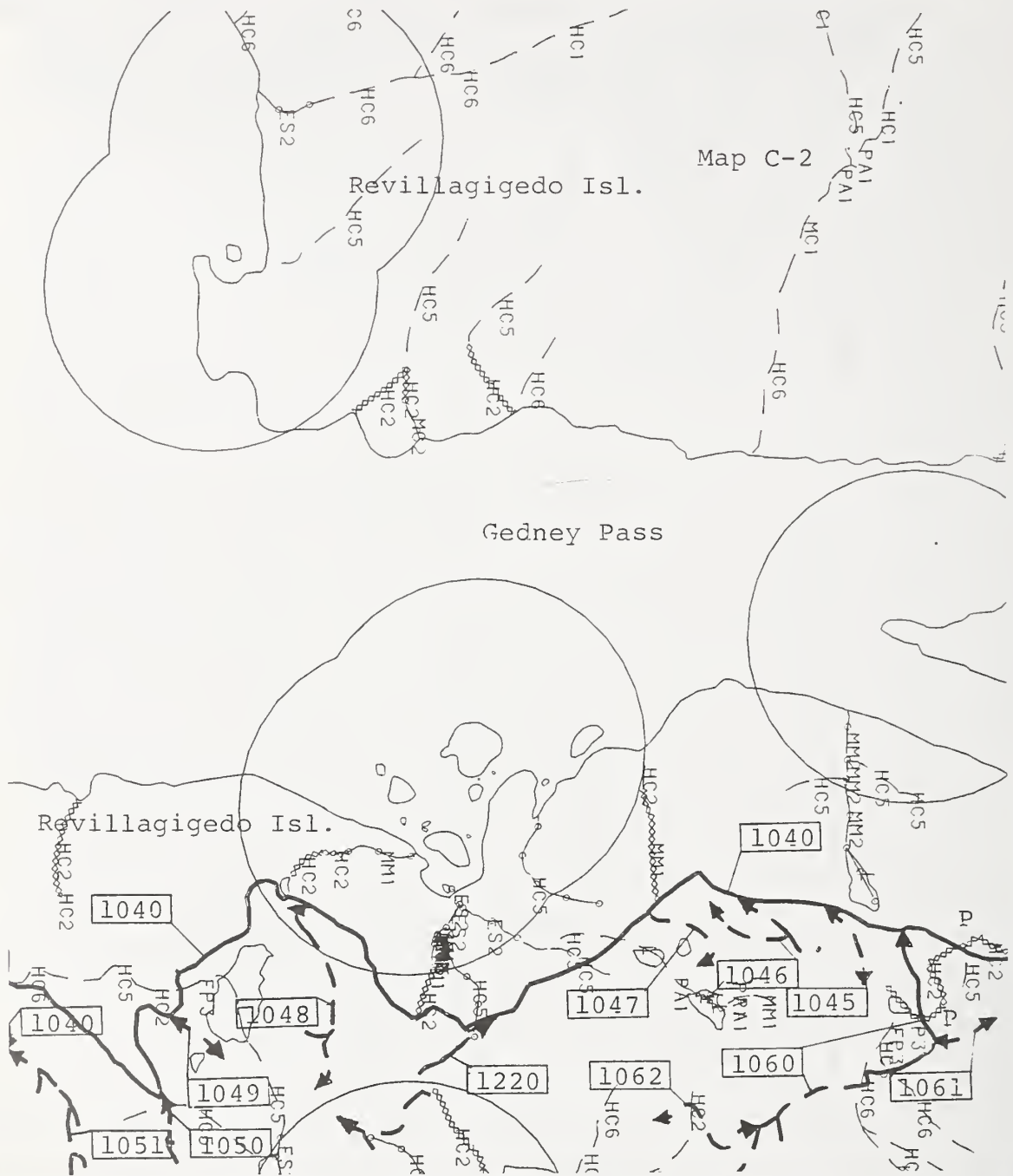
ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1000		X	X	X	X	X	X	X	X	C	1
1002	X				X			X		C	1
1003	X							X		C	1
1004		X						X		C	1
1005		X		X	X		X	X		C	1
1040	X			X			X	X		O SEEDED	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 733, 736, 737 Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: C-2



LEGEND:

Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone



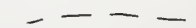
Class I Stream

Class II Stream

Class III Stream

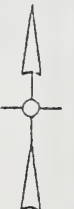
Crossings (timing/passage)

Scale : 2 Inch per Mile



T/P

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1040	X			X			X	X		O SEEDED	1
1045		X								C	1
1046		X								C	1
1047		X								C	1
1048		X								C	1
1049		X								C	1
1050		X								C	1
1051		X								C	1
1060		X		X	X		X			C	1
1061		X								C	1
1062		X			X					C	1
1220		X								C	1

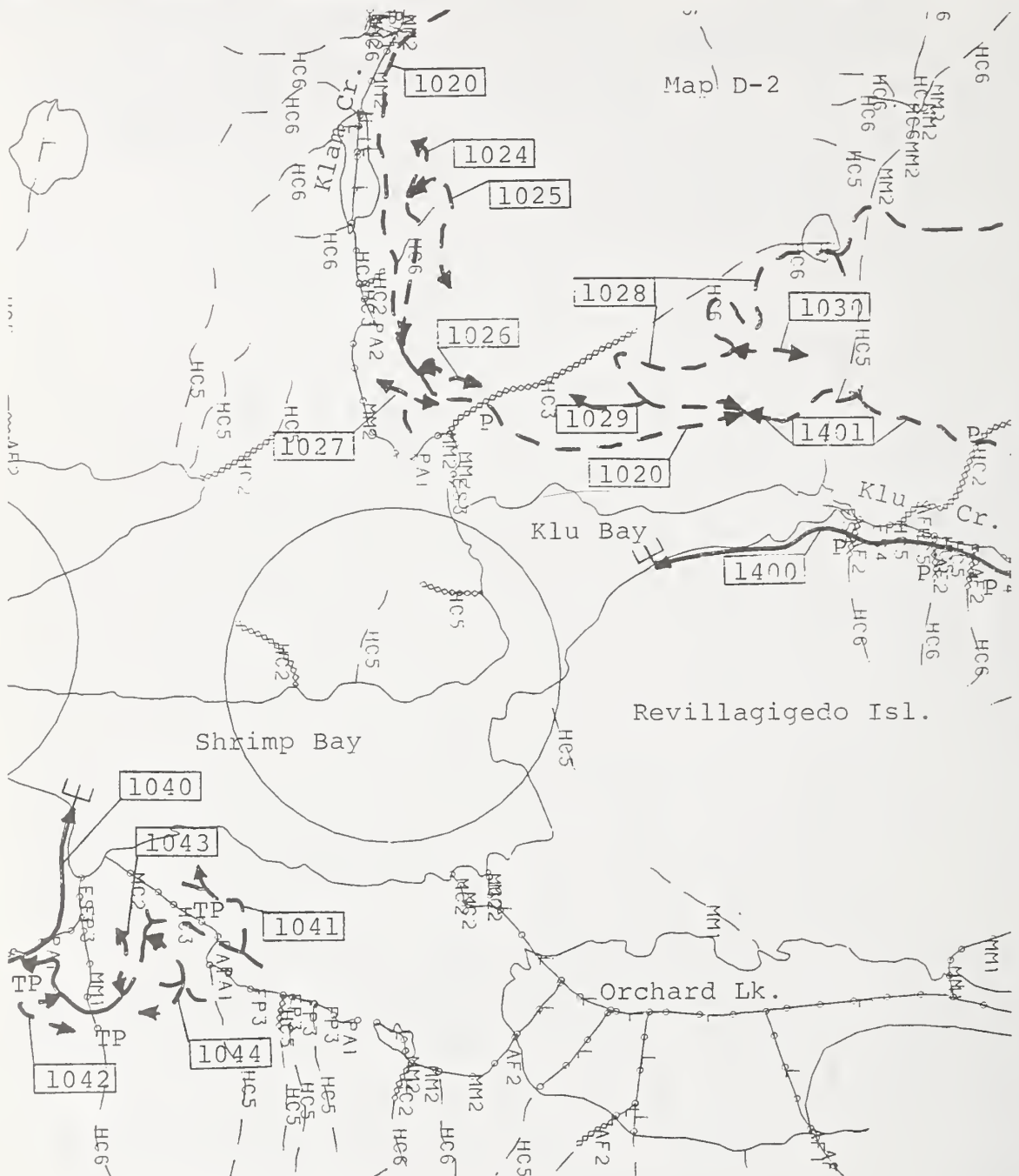
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 733, 737

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: D-2



LEGEND:

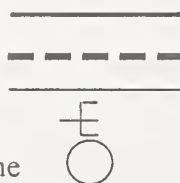
Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone



Class I Stream

Class II Stream

Class III Stream

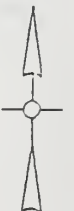
Crossings (timing/passage)

Scale : 2 Inch per Mile



T/P

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1020		X	X	X	X		X			C	1
1024		X			X					C	1
1025		X								C	1
1026		X								C	1
1027		X								C	1
1028		X			X					C	1
1029		X								C	1
1030		X								C	1
1040	X			X			X	X		O SEEDED	1
1041	X	X	X			X	X			C	1
1042		X								C	1
1043		X								C	1
1044		X								C	1
1400	X		X	X	X	X	X			O	2
1401	X	X		X	X		X			O SEEDED	1

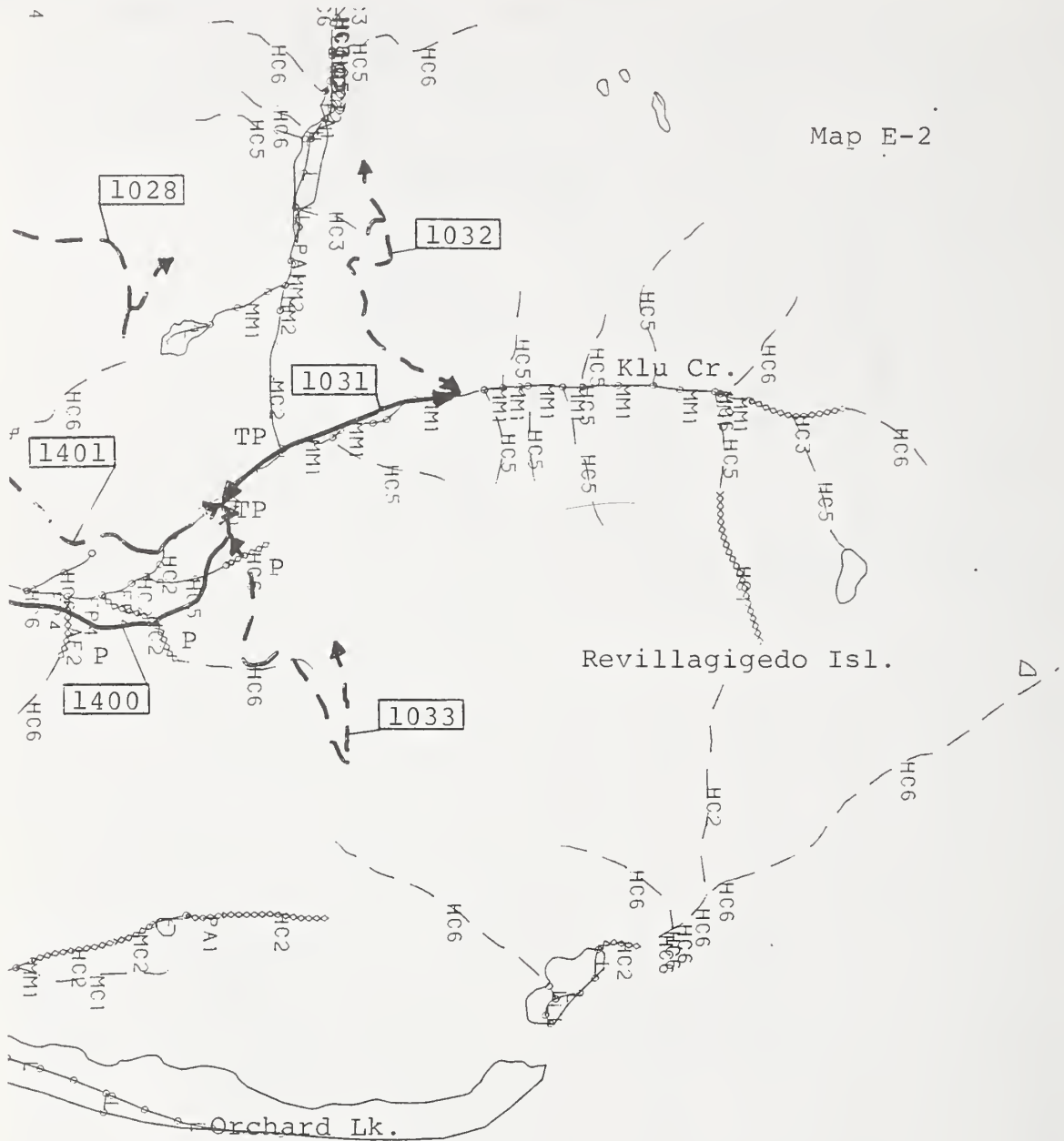
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 733, 737

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: E-2



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone

Class I Stream



Class II Stream



Class III Stream



Crossings (timing/passage) T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1028		X			X					C	1
1031	X		X			X	X			O SEEDED	1
1032		X								C	1
1033		X		X			X			C	1
1400	X		X	X		X	X			O	2
1401	X	X		X	X		X			O SEEDED	1

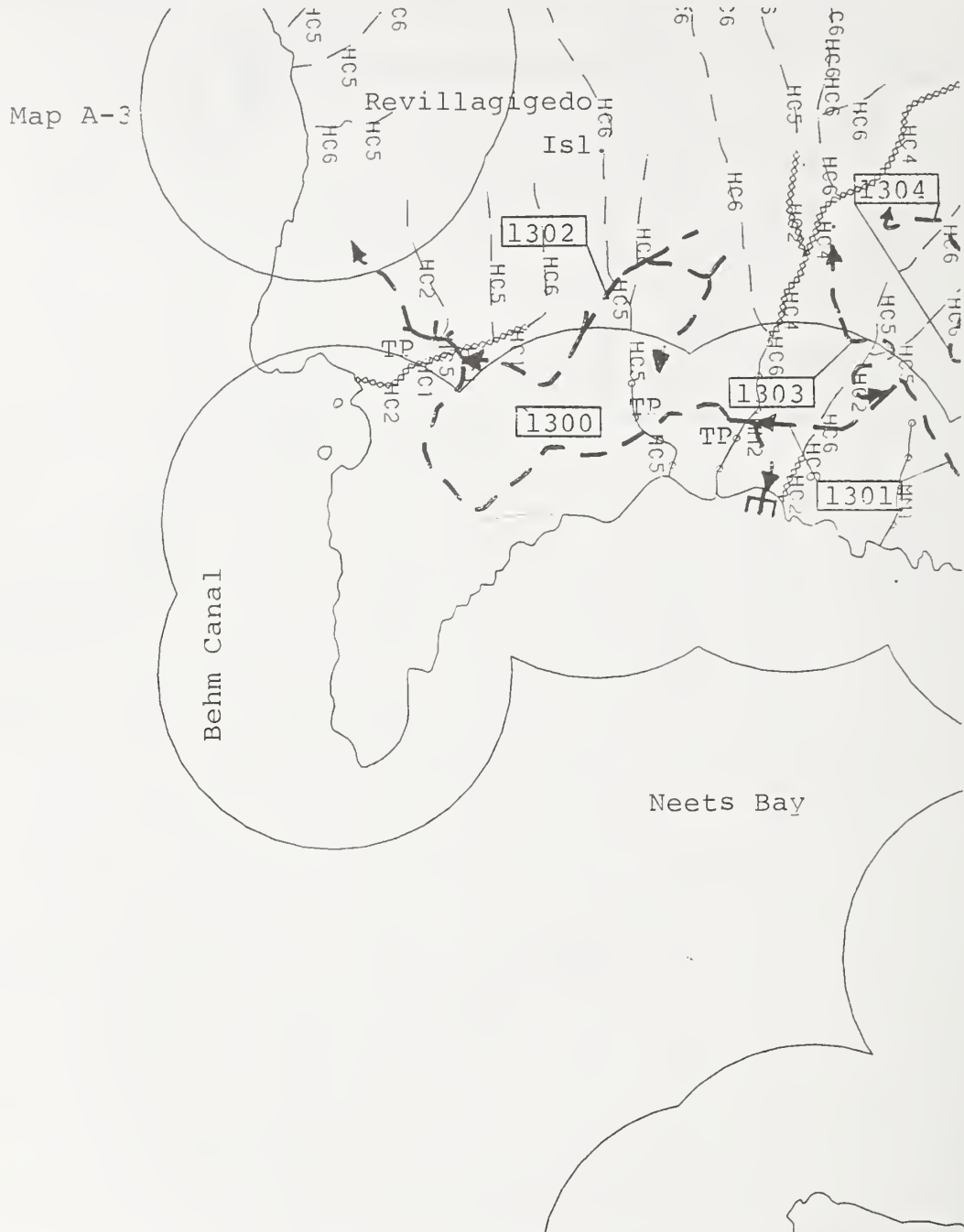
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 736

Quadrangle: Ketchikan D-5, D-6

ROAD CARD MAP NUMBER: A-3



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



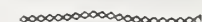
Eagle Disturbance Zone



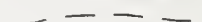
Class I Stream



Class II Stream



Class III Stream

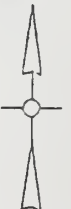


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1300		X	X	X	X	X	X	X		C	1
1301	X	X	X		X	X	X	X		C	1
1302		X			X			X		C	1
1303		X			X			X		C	1
1304	X	X			X			X		C	1

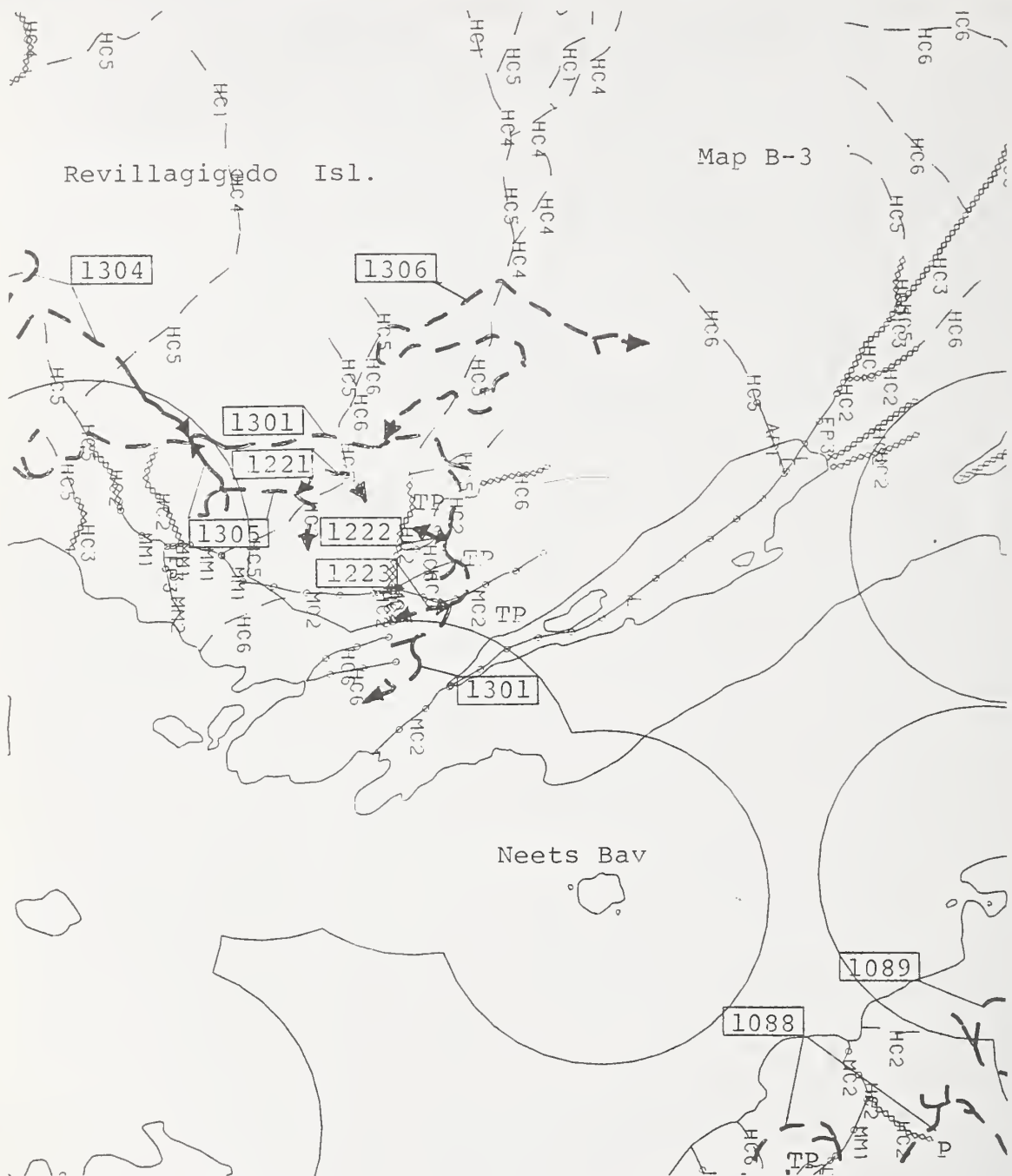
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 736, 737

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: B-3



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



Class I Stream



Class II Stream



Class III Stream

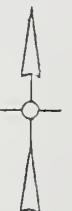


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



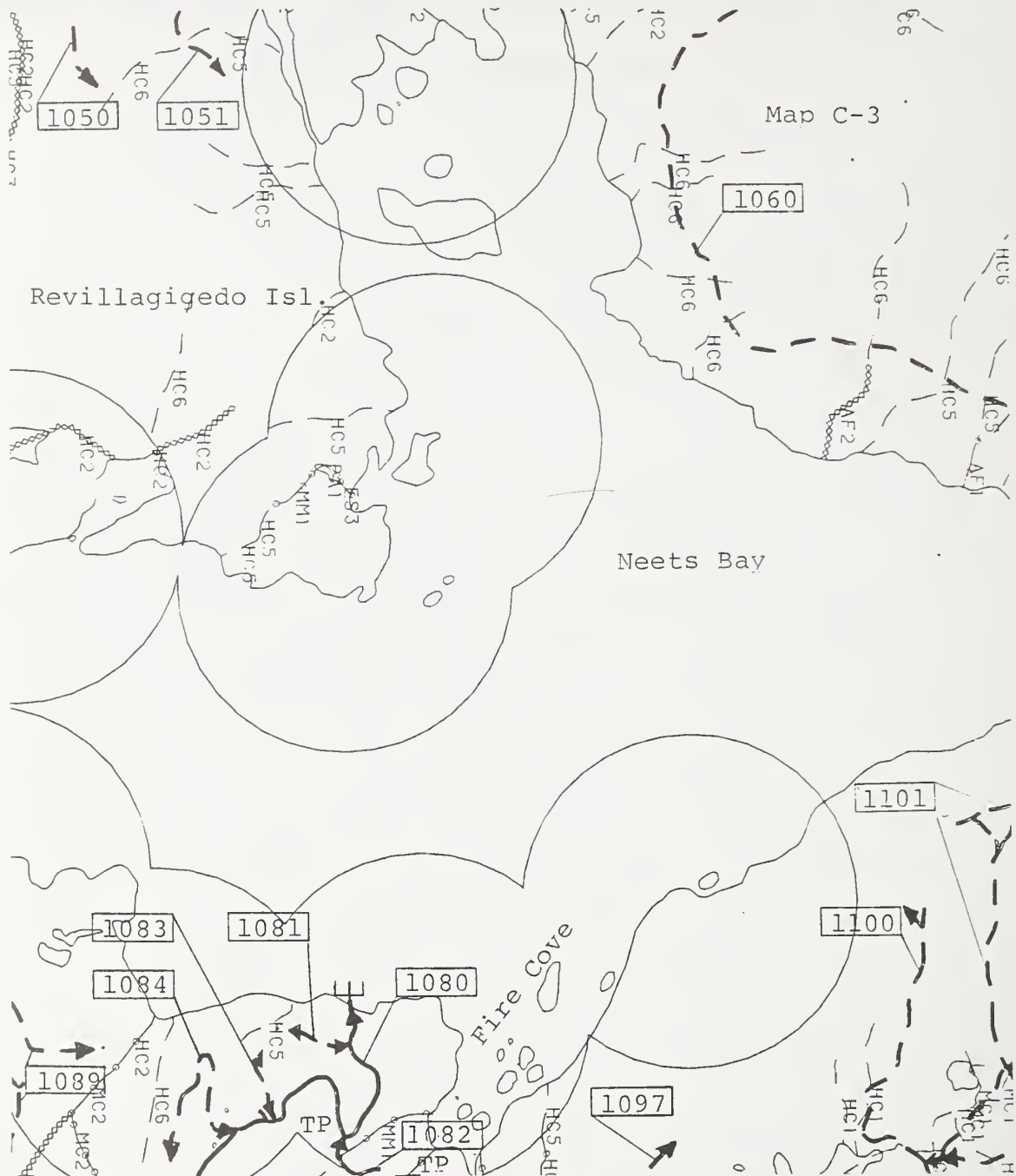
ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1088		X	X	X	X	X	X			C	1
1089		X						X		C	1
1301	X	X	X		X	X	X	X		C	1
1304	X	X			X			X		C	1
1305	X	X			X			X		C	1
1306		X			X					C	1
1221		X			X					C	1
1222		X	X			X	X			C	1
1223		X						X		C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 733, 736, 737 Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: C-3



LEGEND:

Existing Road

Planned Road

Shoreline

Log Tranfer Facility

Eagle Disturbance Zone



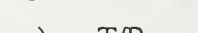
Class I Stream

Class II Stream

Class III Stream

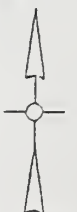
Crossings (timing/passage)

Scale : 2 Inch per Mile



T/P

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1050		X			X					C	1
1051		X								C	1
1060		X		X	X		X			C	1
1080	X		X	X	X	X	X	X		O	2
1081		X			X			X		C	1
1082		X	X		X	X	X	X		C	1
1083		X						X		C	1
1084		X						X		C	1
1089		X						X		C	1
1097		X								C	1
1100		X			X					C	1
1101		X			X					C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 733, 737

Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: D-3



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



Class I Stream



Class II Stream



Class III Stream

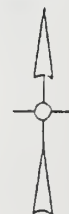


Crossings (timing/passage)

T/P

Scale: 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1060	X	X		X	X		X			C	1
1070		X								C	1
1071		X			X					C	1
1072		X			X					C	1
1073		X			X					C	1
1096	X	X			X					C	1
1101		X			X					C	1
1102		X			X					C	1
1103		X			X					C	1
1410	X		X	X	X	X	X			O	2
1411	X		X		X		X			C	1
1412		X			X					C	1

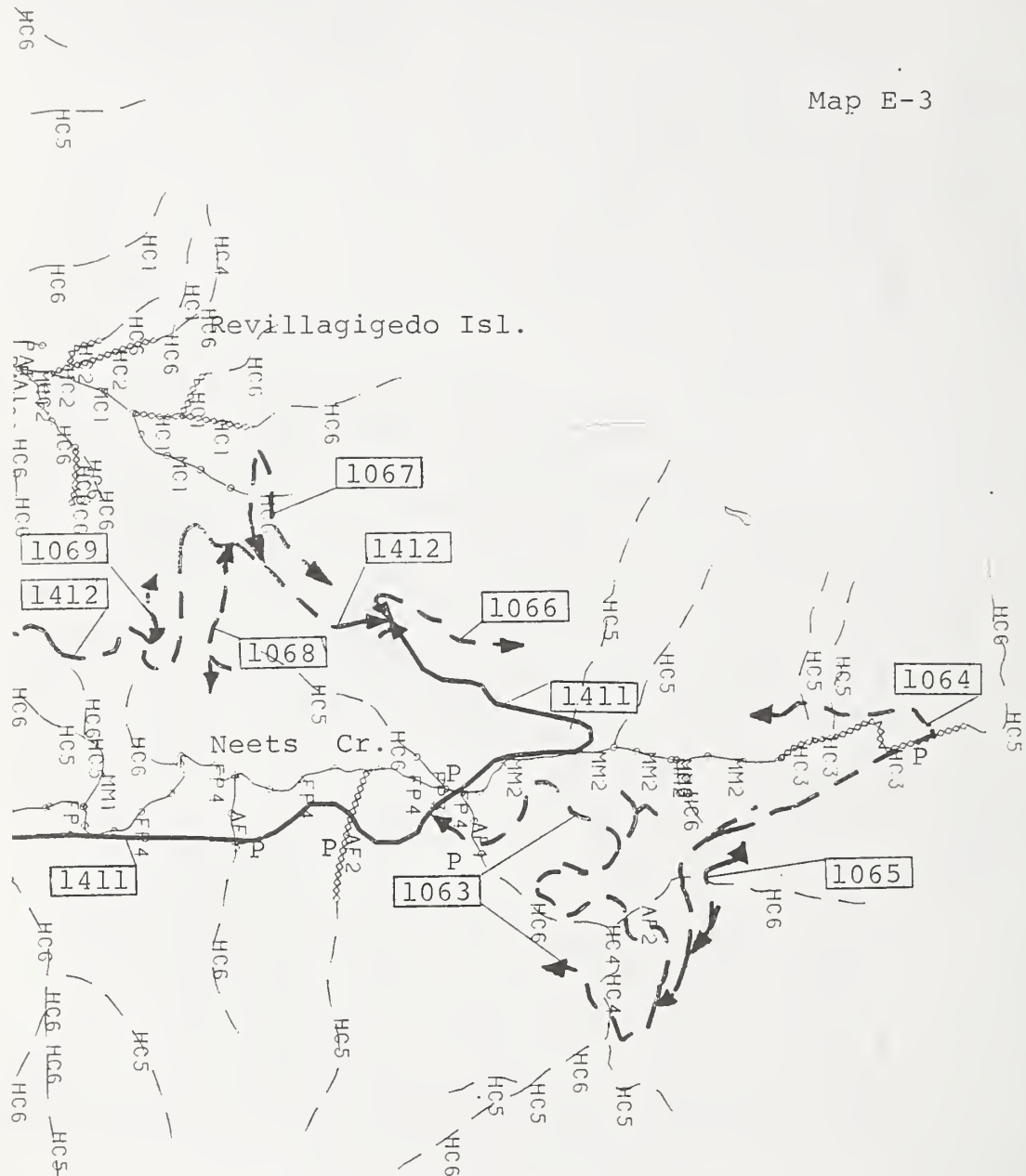
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 733, 737, 739 Quadrangle: Ketchikan D-5

ROAD CARD MAP NUMBER: E-3

Map E-3



LEGEND:

Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone

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- - - - -

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Class I Stream

Class II Stream

Class III Stream

Crossings (timing/passage)

Scale : 2 Inch per Mile

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T/P

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1063		X	X		X		X			C	1
1064		X		X	X		X			C	1
1065		X			X					C	1
1066		X								C	1
1067		X			X					C	1
1068		X								C	1
1069		X								C	1
1411	X		X		X		X			C	1
1412		X			X					C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

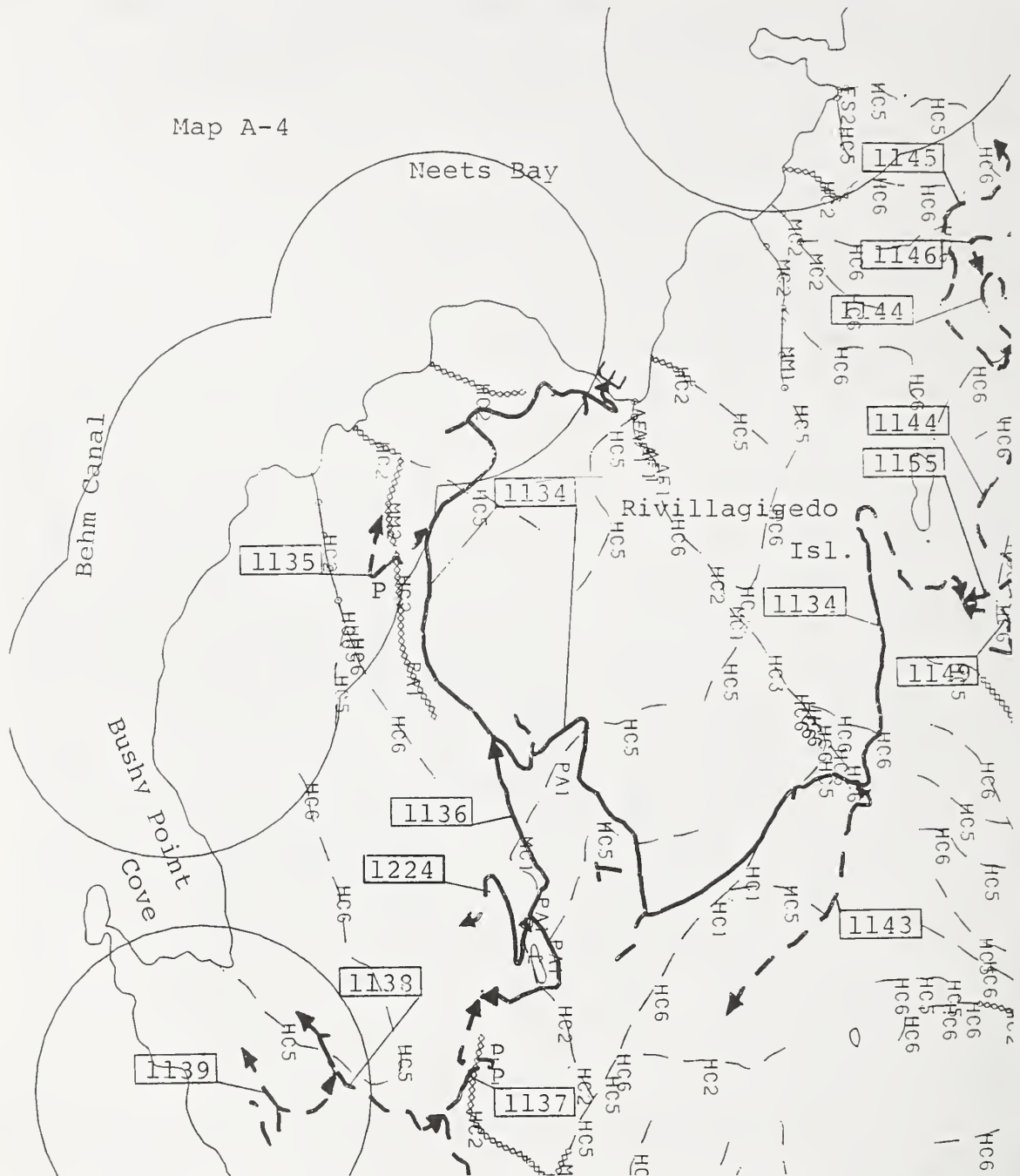
NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 736, 738

Quadrangle: Ketchikan C-5, C-6, D-5, D-6

ROAD CARD MAP NUMBER: A-4

Map A-4



LEGEND:

Existing Road



Planned Road



Shoreline



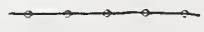
Log Transfer Facility



Eagle Disturbance Zone



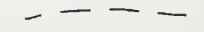
Class I Stream



Class II Stream



Class III Stream

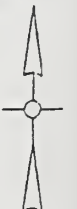


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1034	X							X		O SEEDED	1
1135		X		X			X	X		C	1
1136	X	X								C	1
1137		X		X	X		X	X		O SEEDED	1
1138		X			X			X		O SEEDED	1
1139		X						X		C	1
1143		X			X					C	1
1144		X			X					C	1
1145		X			X					C	1
1146		X			X					C	1
1149		X			X					C	1
1155		X			X					O SEEDED	1
1224	X	X								C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 736, 738, 739 Quadrangle: Ketchikan C-5, D-5

ROAD CARD MAP NUMBER: B-4



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone

Class I Stream



Class II Stream



Class III Stream

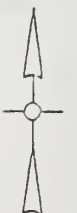


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1134	X			X	X		X			C	1
1088		X	X	X	X	X	X			C	1
1090		X			X					C	1
1091		X								C	1
1092		X								C	1
1144		X			X					C	1
1146		X			X					C	1
1147		X	X	X	X	X	X	X	X	C	1
1148		X			X					O SEEDED	1
1149		X			X					C	1
1150		X			X			X		C	1
1151		X			X			X		C	1
1152		X						X		C	1
1153		X			X			X		C	1
1155		X			X					O SEEDED	1
1160	X	X	X	X	X	X	X			O	2
1167		X			X					C	1
1171		X			X					C	1
1172		X			X					C	1
1174		X			X					C	1
1175		X			X					C	1

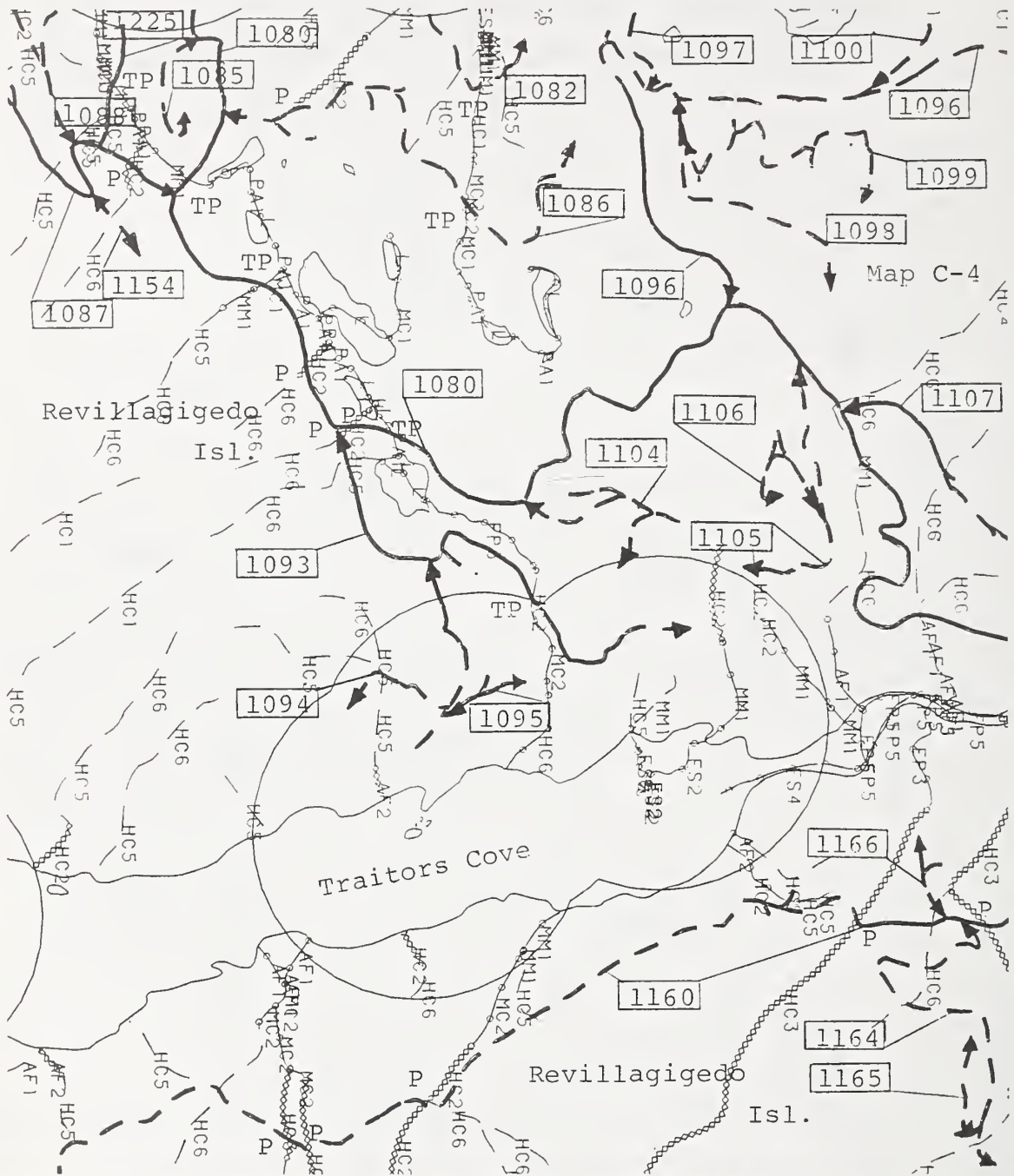
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 737, 739

Quadrangle: Ketchikan C-5, D-5

ROAD CARD MAP NUMBER: C-4



LEGEND:

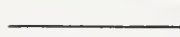
Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone

Class I Stream



Class II Stream



Class III Stream

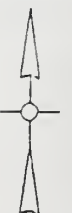


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1080	X		X	X	X	X	X	X		O	2
1082		X	X		X	X	X	X		C	1
1085		X								C	1
1086		X	X		X	X	X			C	1
1087	X			X	X		X			C	1
1088		X	X	X	X	X	X			C	1
1093	X	X	X	X	X	X	X	X		C	1
1094		X		X				X		C	1
1095		X						X		C	1
1096	X	X			X					C	1
1097		X								C	1
1098		X								C	1
1099		X								C	1
1100		X			X					C	1
1104		X					X			C	1
1105		X			X					C	1
1106		X								C	1
1107	X	X			X					C	1
1160	X	X	X	X	X	X	X			O	2
1164		X			X					C	1
1165		X								C	1
1166		X			X					C	1
1225	X	X	X		X	X	X	X		C	1

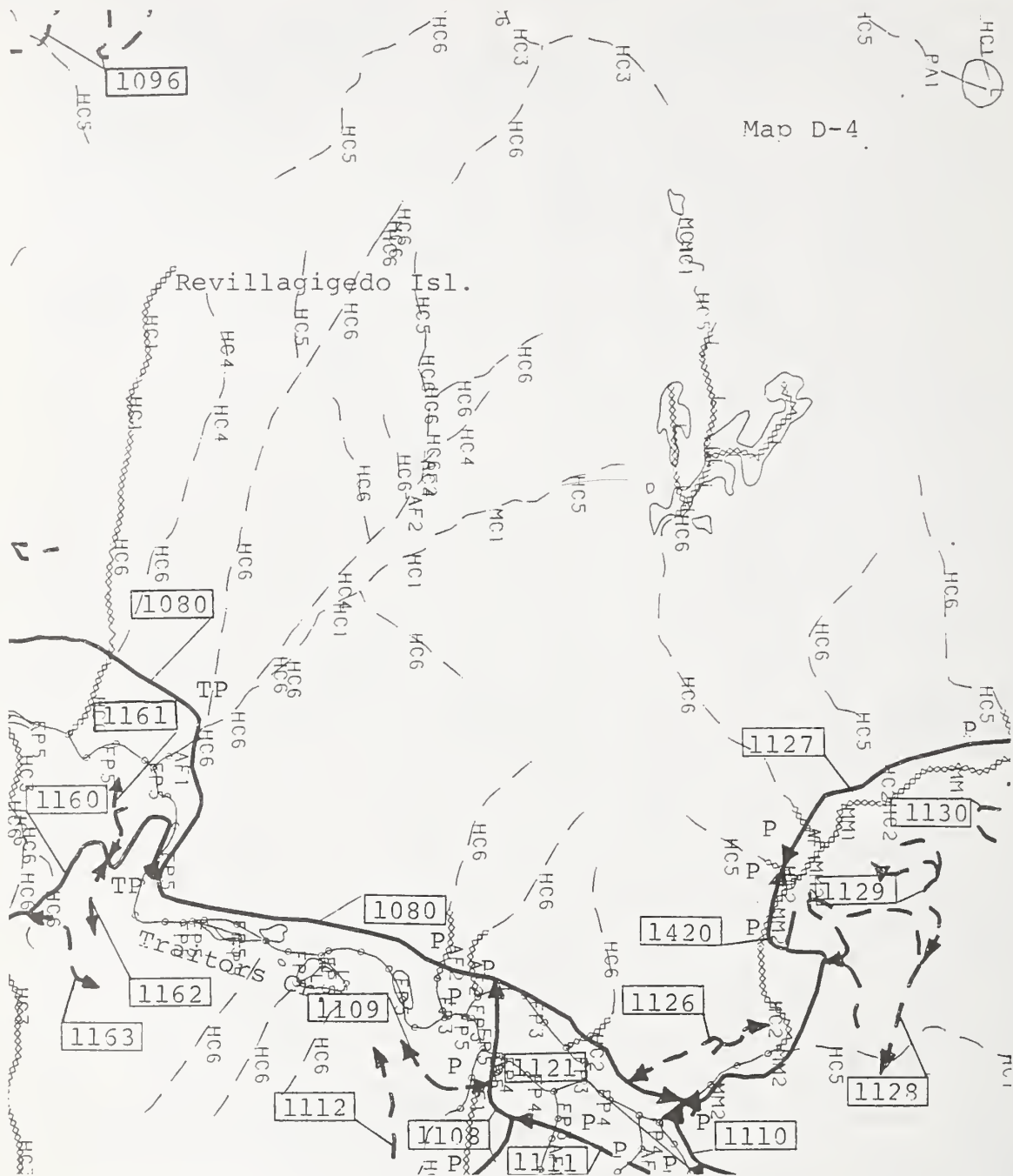
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 737, 739

Quadrangle: Ketchikan C-5, D-5

ROAD CARD MAP NUMBER: D-4



LEGEND:

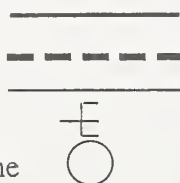
Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone



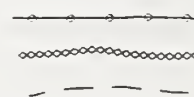
Class I Stream

Class II Stream

Class III Stream

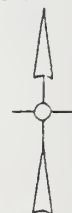
Crossings (timing/passage)

Scale : 2 Inch per Mile



T/P

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1080	X		X	X	X	X	X	X		O	2
1096	X	X			X					C	1
1108	X		X	X	X		X			C	1
1109		X	X				X			C	1
1110	X		X		X		X			C	1
1111	X	X	X				X			C	1
1112		X			X					C	1
1121	X		X	X	X		X			C	1
1126		X								C	1
1127	X	X		X	X		X			C	1
1128		X			X					C	1
1129		X								C	1
1130		X		X			X			C	1
1160	X	X	X	X	X	X	X			O	2
1161		X								C	1
1162		X								C	1
1163		X								C	1
1420	X			X	X		X			O	2

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 739

Quadrangle: Ketchikan C-5, D-5

ROAD CARD MAP NUMBER: E-4

Map E-4



LEGEND:

Existing Road



Planned Road



Shoreline



Log Tranfer Facility



Eagle Disturbance Zone



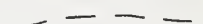
Class I Stream



Class II Stream



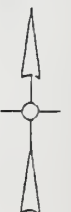
Class III Stream



Crossings (timing/passage) T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1127	X	X		X	X		X			C	1
1130		X		X			X			C	1
1131		X								C	1
1132		X		X			X			C	1
1153		X			X			X		C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 738, 740

Quadrangle: Ketchikan C-5, C-6

ROAD CARD MAP NUMBER: A-5



LEGEND:

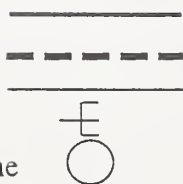
Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone



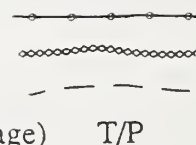
Class I Stream

Class II Stream

Class III Stream

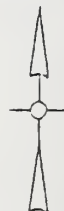
Crossings (timing/passage)

Scale : 2 Inch per Mile



T/P

NORTH

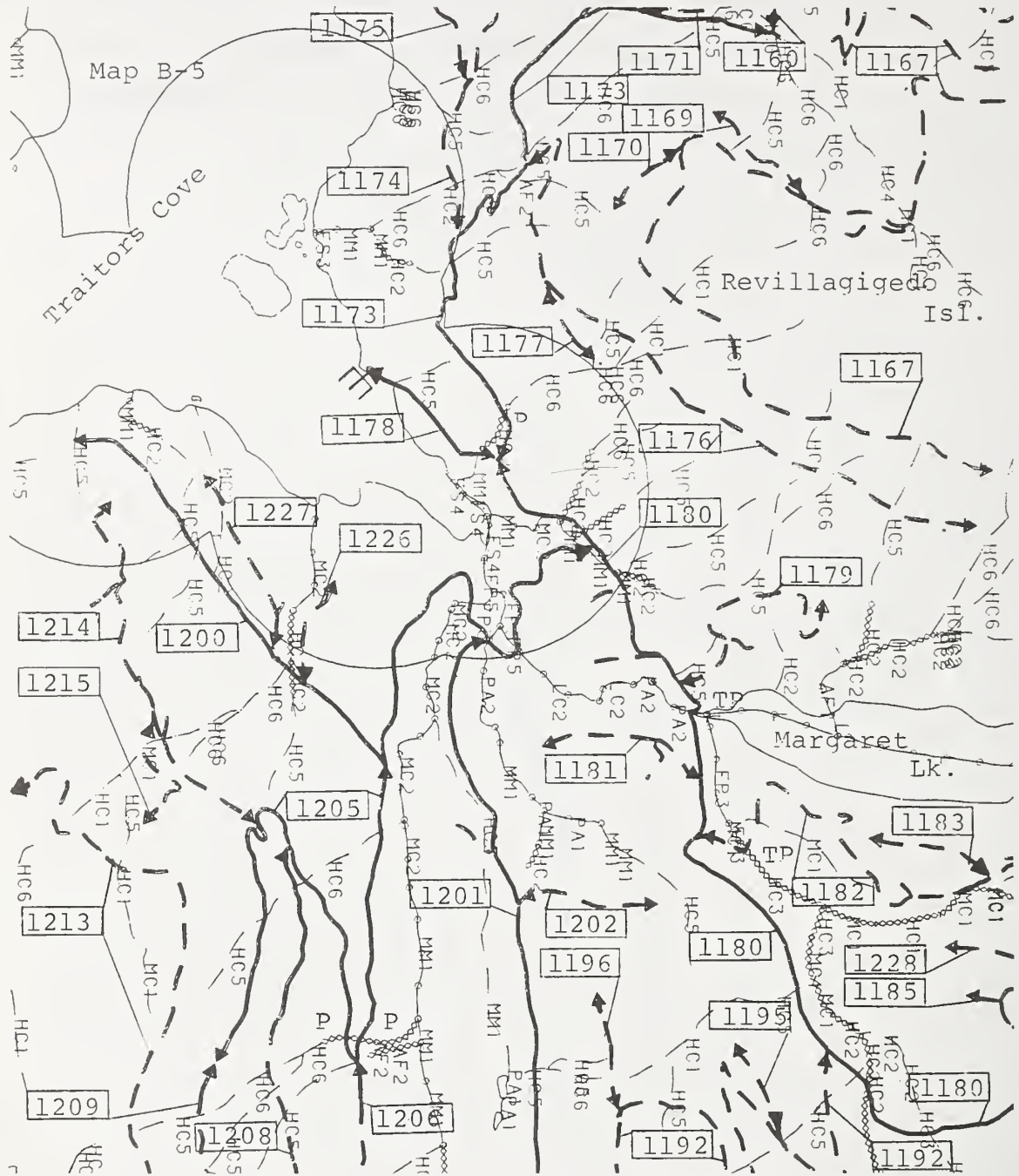


E	EXISTING ROAD
P	PROPOSED ROAD
O	OPEN TO HIGH CLEARANCE TRAFFIC
C	ORGANIC CLOSURE OR MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 736, 738, 739 Quadrangle: Ketchikan C-5

ROAD CARD MAP NUMBER: B-5



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



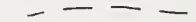
Class I Stream



Class II Stream



Class III Stream

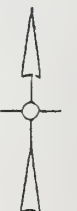


Crossings (timing/passage)

T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1160	X	X	X	X	X	X	X			O	2
1167		X			X					C	1
1169		X			X					C	1
1170		X								C	1
1171		X			X					C	1
1173	X			X	X		X	X		O	2
1174		X			X					C	1
1175		X			X					C	1
1176		X			X					C	1
1177		X								C	1
1178	X							X		O	2
1179		X			X					C	1
1180	X		X			X	X		X	O	2
1181		X								C	1
1182		X		X	X	X	X			C	1
1183		X								C	1
1185		X								C	1
1192		X			X					C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1195		X								C	1
1196		X								C	1
1200	X							X		O	2
1201	X				X			X		C	1
1202		X								C	1
1205	X			X	X		X			O SEEDED	1
1206		X			X					O SEEDED	1
1208	X	X			X					C	1
1209		X			X					O SEEDED	1
1213		X			X					C	1
1214		X			X			X		C	1
1215		X			X					C	1
1226		X						X		C	1
1227		X			X			X		C	1
1228		X								C	1

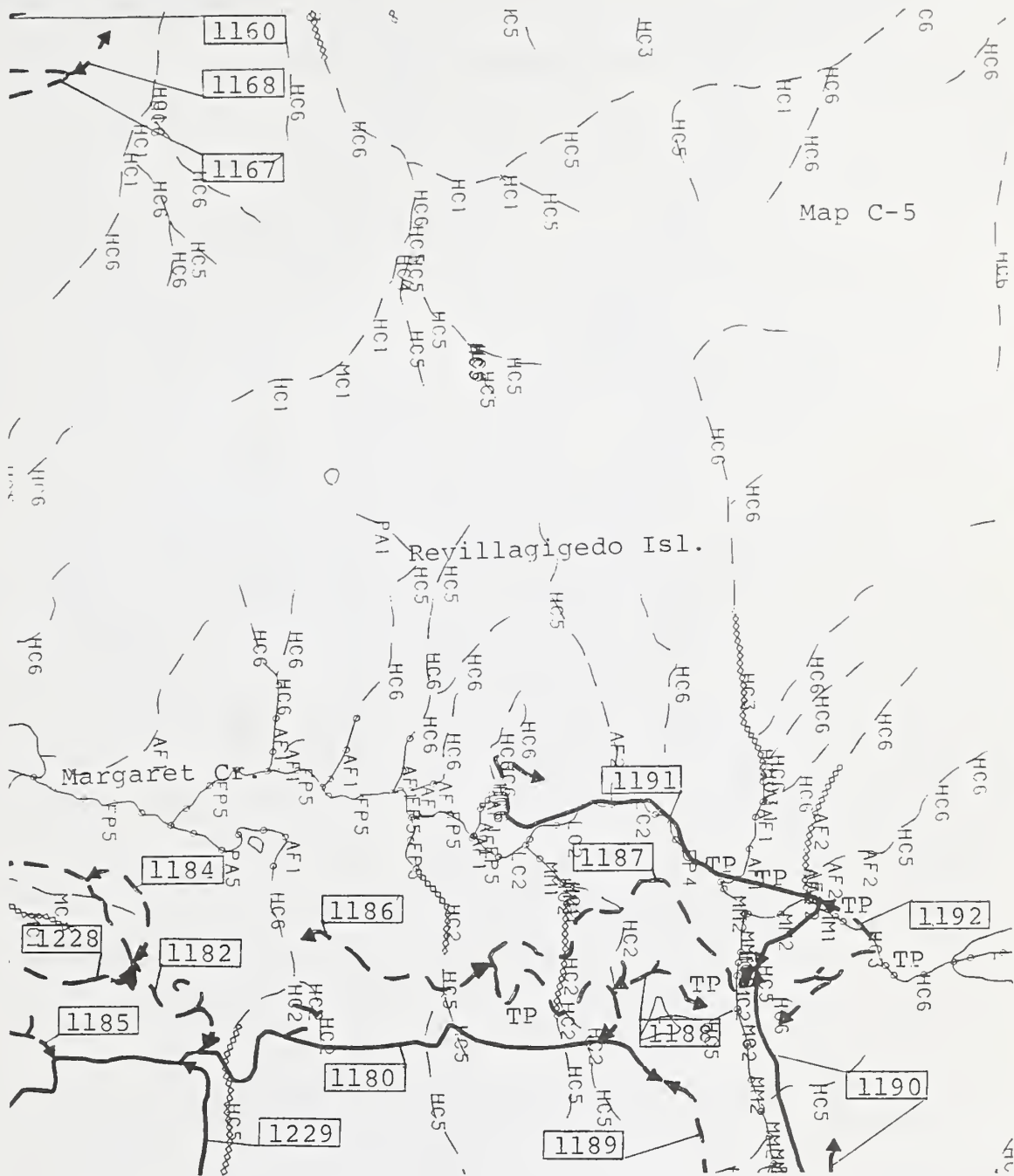
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 737, 739

Quadrangle: Ketchikan C-5

ROAD CARD MAP NUMBER: C-5



NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1160	X	X	X	X	X	X	X			O	2
1167		X			X					C	1
1168		X								C	1
1180	X		X	X	X	X	X	X	X	O	2
1182		X	X		X	X	X	X		C	1
1184		X						X		C	1
1185		X								C	1
1186		X			X					C	1
1187		X	X	X	X	X	X			C	1
1188		X			X					C	1
1189		X			X			X		C	1
1190	X	X			X					C	1
1191	X	X	X	X	X	X	X			C	1
1192		X				X	X			C	1
1228		X								C	1
1229		X								C	1
		X									

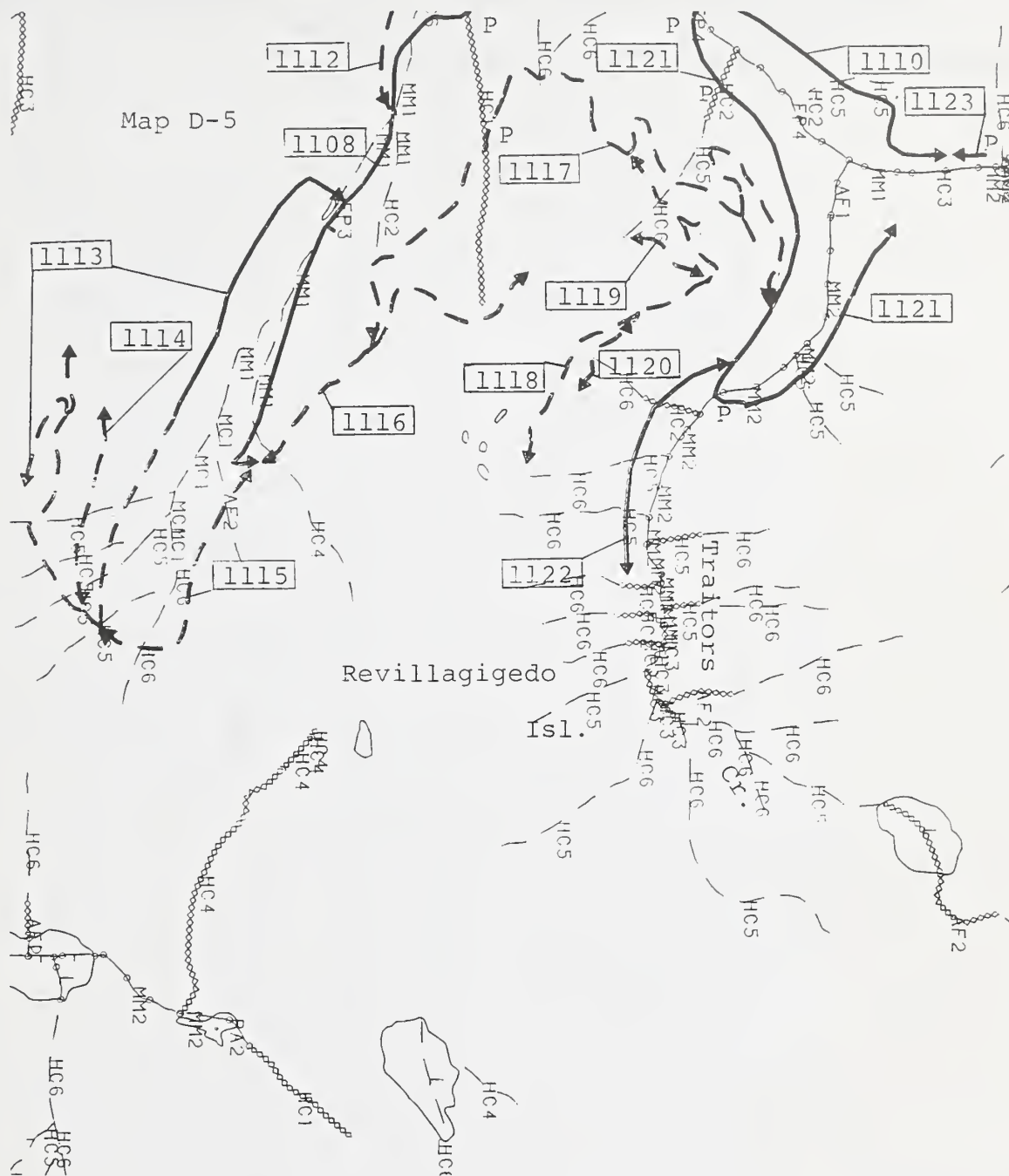
E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 738, 739

Quadrangle: Ketchikan C-5

ROAD CARD MAP NUMBER: D-5



LEGEND:

Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone

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Class I Stream

Class II Stream

Class III Stream

Crossings (timing/passage)

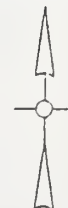
Scale : 2 Inch per Mile

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T/P

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1108	X		X	X	X		X			C	1
1110	X		X		X		X			C	1
1112		X			X					C	1
1113	X	X			X					C	1
1114		X			X					C	1
1115		X			X					C	1
1116		X			X					C	1
1117		X		X	X		X			C	1
1118		X			X					C	1
1119		X								C	1
1120		X			X					C	1
1121	X		X	X	X		X			C	1
1122	X				X					O	2
1123		X		X	X		X			C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

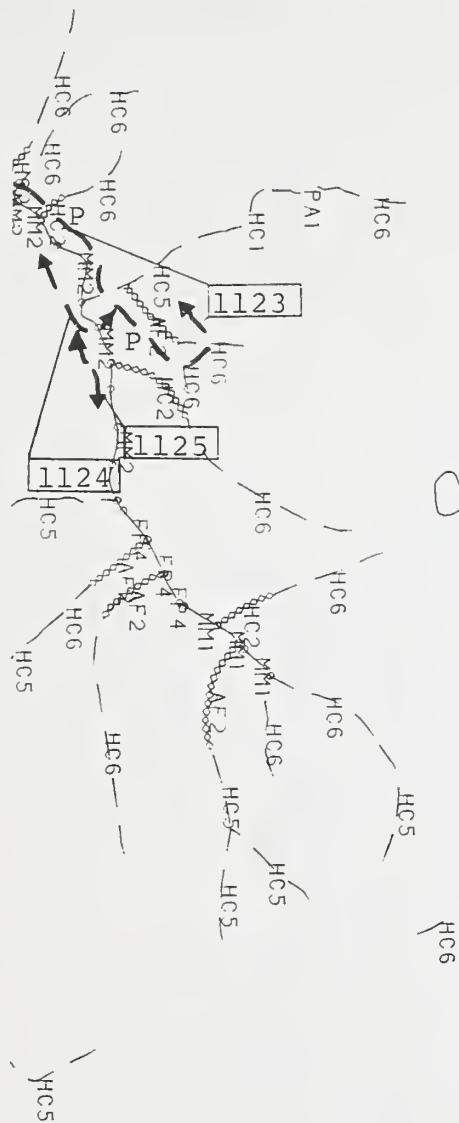
NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 739

Quadrangle: ~~Ketchikan C-5~~

ROAD CARD MAP NUMBER: E-5

Map E-5'



Revillaigedo

Isl.

LEGEND:

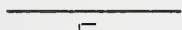
Existing Road

Planned Road

Shoreline

Log Transfer Facility

Eagle Disturbance Zone



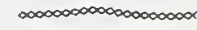
Class I Stream

Class II Stream

Class III Stream

Crossings (timing/passage)

Scale : 2 Inch per Mile



T/P

NORTH



[illegible]

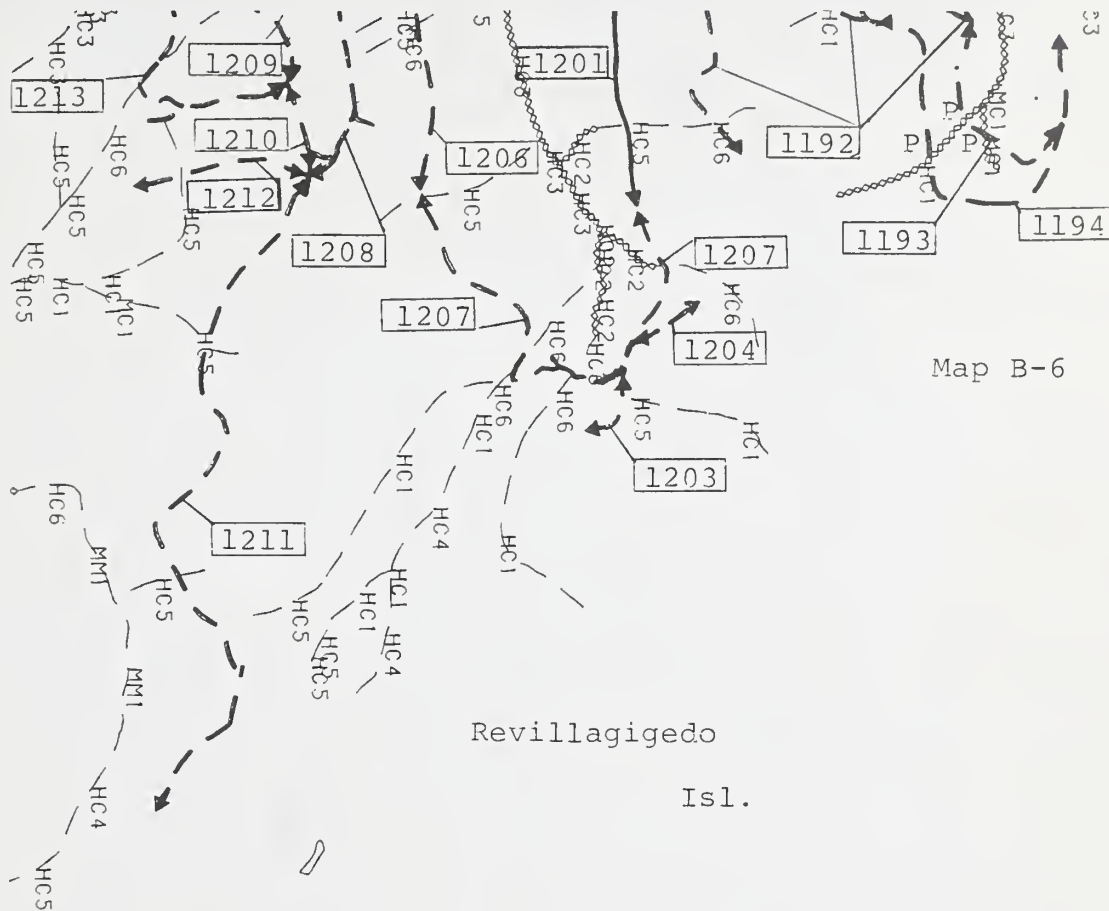
E	EXISTING ROAD
P	PROPOSED ROAD
O	OPEN TO HIGH CLEARANCE TRAFFIC
C	ORGANIC CLOSURE OR MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

VCU: 738, 740

Quadrangle: Ketchikan C-5

ROAD CARD MAP NUMBER: B-6



LEGEND:

Existing Road



Planned Road



Shoreline



Log Transfer Facility



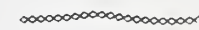
Eagle Disturbance Zone



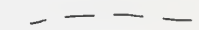
Class I Stream



Class II Stream



Class III Stream



Crossings (timing/passage) T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1192		X	X		X	X	X			C	1
1193		X		X			X			C	1
1194		X		X			X			C	1
1201	X				X			X		C	1
1203		X			X					C	1
1204		X								C	1
1206		X			X					O SEEDED	1
1207		X			X					C	1
1208	X	X			X					C	1
1209		X			X					O SEEDED	1
1210		X								C	1
1211		X			X					C	1
1212		X			X					C	1
1213		X			X					C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL

NORTH REVILLA PROJECT ROAD DESIGN CARD

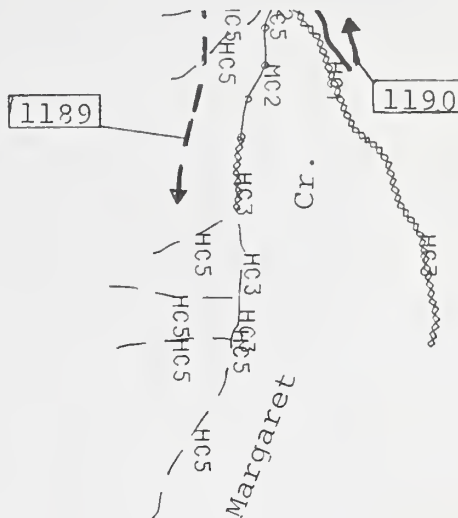
VCU: 738

Quadrangle: Ketchikan C-5

ROAD CARD MAP NUMBER: C-6



Map C-6



Revillagigedo

Isl.

LEGEND:

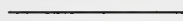
Existing Road



Planned Road



Shoreline



Log Transfer Facility



Eagle Disturbance Zone



Class I Stream



Class II Stream



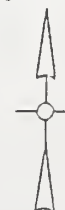
Class III Stream



Crossings (timing/passage) T/P

Scale : 2 Inch per Mile

NORTH



ROAD NO.	E	P	IDENTIFIED STREAM CROSSINGS			FISH RESTRICTIONS		EAGLE DISTURBANCE ZONE		ROAD DISPOSITION	MAINT LEVEL
			Class I	Class II	Class III	Timing	Passage	1/2 Mile	330 Feet		
1189		X			X					C	1
1190	X	X			X					C	1
1229	X									C	1

E EXISTING ROAD
 P PROPOSED ROAD
 O OPEN TO HIGH CLEARANCE TRAFFIC
 C ORGANIC CLOSURE OR
 MODULAR BRIDGE REMOVAL



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